

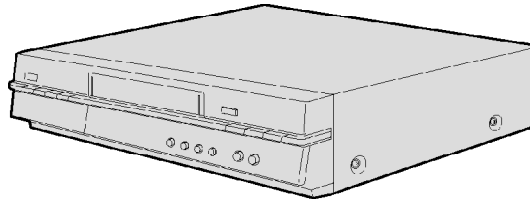
ORDER NO. MABR0304008C2

Service Manual

Video Cassette Recorder

Panasonic **VHS** VHS
PAL SECAM
625 **Hi-Fi**

NV-SV120EF
Z-MECHANISM



SPECIFICATIONS

SPECIFICATIONS			
ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	VOLTAGE: 220-240 V AC/50/60 Hz	AUDIO	HEADS: 1 for recording (Biaxial mono only), 2 for playback (Stereo)
	CONSUMPTION: 30 watts COEFFICIENT FOR WHEN IN STANDBY MODE: Approx. 3W		INPUT: C/JRD AV (Analog) Connector (21 pin x 2) S-VIDEO: 1 pin, More than 10 kΩ AUDIO IN (L/R): 2-pin Connector (Photo type) S-VIDEO: 1 pin, More than 10 kΩ
RECORDING SYSTEM	2-track heads for still scanning system	OUTPUT	AUDIO OUT Connector (Photo type) S-VIDEO: 1 pin, More than 10 kΩ C/JRD AV (Analog) Connector (21 pin x 2) S-VIDEO: 1 pin, More than 10 kΩ
PA SYSTEM	PA SYSTEM		8 VHS/VHS Connects Tape (Tape width 12.7 mm)
TV TUNING SYSTEM	VHF: CH1-CH12 (8UML) CH1-CH12 (PAL) CH1-CH12 (SECAM) CH1-CH12 (PAL) CH1-CH12 (SECAM) CH1-CH12 (PAL) CH1-CH12 (SECAM) CH1-CH12 (PAL)	VHS/HDDMI	SP: 21.36 mm LP: 11.56 mm EF: 7.74 mm Recessed Playback Tape
	HEADS: 4 tape heads 1 pair for recording (Biaxial) (1 pair for playback) 1 pair for recording (1 pair for playback)		EP: 4 tracks with 240 min. tape base EP: 4 tracks with 240 min. tape base EP: 2 tracks with 240 min. tape base
VIDEO	INPUT: EURO AV (Analog) Connector (21 pin x 2) S-VIDEO IN (Analog) Connector (S-Video) S-VIDEO IN (Analog) Connector (S-Video) S-VIDEO IN (Analog) Connector (S-Video) S-VIDEO IN (Analog) Connector (S-Video)	OPERATING TEMPERATURE	5°C - 40°C
	OUTPUT: EURO AV (Analog) Connector (21 pin x 2) S-VIDEO OUT (Analog) Connector (S-Video) S-VIDEO OUT (Analog) Connector (S-Video) S-VIDEO OUT (Analog) Connector (S-Video) S-VIDEO OUT (Analog) Connector (S-Video)	HUMIDITY	55% - 85%
			450 (W/270-280) mm
		WEIGHT	3.5 kg
			1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c.
		STANDARD ACCESSORIES	1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c.
			1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c.
		OPTIONAL	1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c.
			1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c. 1 pc. 20W RF Osc. c.

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. INTRODUCTION

1.1. INTRODUCTION

This service manual contains technical information which will allow service personnel to

understand and service this model.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

Note:

Adjustment procedures, Disassembly Procedures and Assembly Procedures for Mechanism Chassis are separate volume from this service manual. / Please refer to the service manual for Z-Mechanism Chassis. (Order No. VRD9802005C2)

1.2. ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:

- Pb free solder has a higher melting point than standard solder, Typically the melting point is 50-70°F (30-40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700±20°F (370±10°C)
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

2. GENERAL DESCRIPTIONS

2.1. SERVICE CAUTION

2.1.1. REPLACING IC6002/EEPROM

When the EEPROM: IC6002 is replaced, applicable model code, option code and electrical adjustment data will not be available.

Therefore, enter and/or adjust the necessary data after replacing IC6002 by referring following procedure.

STEP1.REPLACE THE IC6002

- 1. Remove the C.B.A. with Mechanism unit by referring the Disassembly procedure.**
- 2. Disconnect the AC plug and replace the IC6002.**

STEP2.INPUT THE MODEL & OPTION CODE

- 1. Set up the applicable model code and option code by ordering the following table.**

PROCEDURE	F.I.P. DISPLAY
Turn on the Service Mode 1.Press the FF key and the EJECT key simultaneously for more than 3 seconds.	0 00 00
Activate the Service Mode 2 2.While keep placing FF key, press the EJECT key in twice.	2 00 00
Activate the Entering Mode. 3.Press the EJECT key for more than 3 seconds.	2 00 00
Set the Mode 2. 4.Press the CH UP key in twice.	2 02 00
Display the Setting Code. 5.Press the POWER key to turn the power on.	2 02:00 (Colon starts flashing)
Enter the Model and Option Code. 6.Service Screen is displayed on the monitor. 7.Set the applicable Model and Option code by using REW, PLAY, STOP and FF keys on the Remote Controller. (See Fig.S1 & S2)	
Exit from Service Mode. 8.Press the POWER key to turn the power off. 9. Press FF and EJECT keys simultaneously in 6 times.	10:00 (Normal Indication)

Fig.S1 Service Screen (sample)

Service		
MAIN	VLNC0.16	**
ACS	NONE	
Err	00	
MC	41h	
OC1	7Ch	
OC2	58h	
Clk	+ 34	
V/D	OFF	(depend)

Model No.	MC	OC1	OC2
NV-SV120EF	65h	74h	7Ch

Fig. S2 Model Code & Option Code

NOTE:

Since all electrical adjustments data is still not available, perform the Electrical Adjustment continuously.

2.1.2. CYLINDER UNIT REPLACEMENT

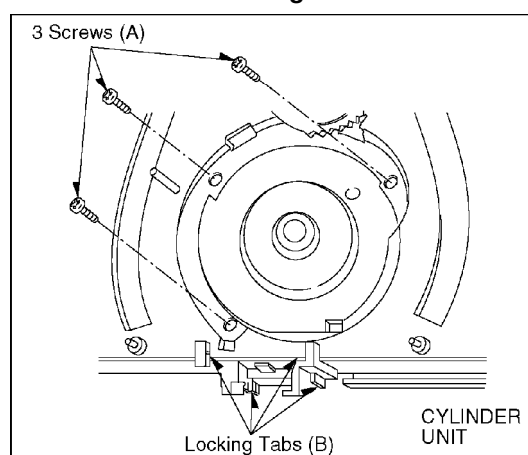
1. CYLINDER UNIT REPLACEMENT

- A. Remove the mechanism unit from MAIN C.B.A./Chassis by referring “SECTION 2. Disassembly Procedure”.
- B. Remove the 3 screws (A) of the CYLINDER UNIT with a screw driver.
- C. Unlock the 4 locking tabs (B) and disconnect the Cylinder flexible card from the FPC Holder.
- D. Remove the CYLINDER UNIT.

CAUTION:

Handle the Cylinder flexible card with care. When it damaged, you should replace whole Cylinder unit.

Fig. S3



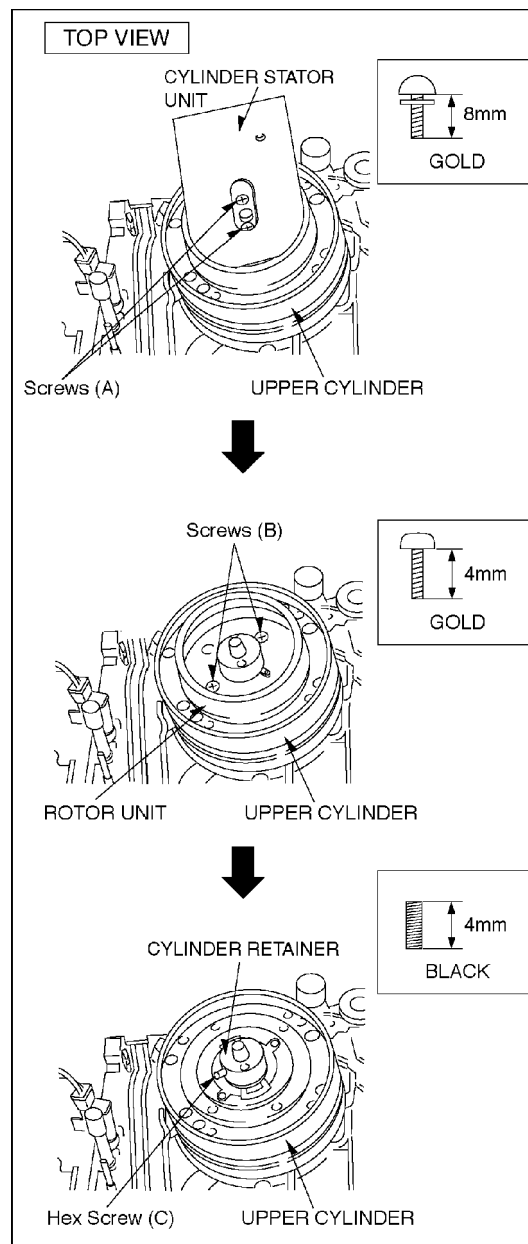
2. UPPER CYLINDER DISASSEMBLY

- A. Remove 2 screws (A).
- B. Remove the Cylinder Stator Unit.
- C. Remove 2 screws (B).
- D. Remove the Cylinder Rotor Unit.

E. Loose Hex screw (C) (1.5 mm) and remove the CYLINDER RETAINER.

F. Remove the Upper Cylinder.

Fig. S4



3. UPPER CYLINDER ASSEMBLY

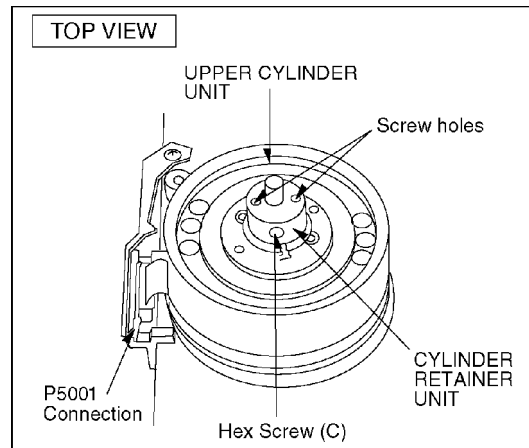
When reassembling, perform the steps in the reverse order.

Notes:

- 1. Install the Cylinder Retainer so that the 2 holes on top of the Cylinder Retainer are at right angles with the P5001 Connection.**

2. Tighten the Hex screw (C) (1.5 mm) while pressing down on top of the Cylinder Retainer.

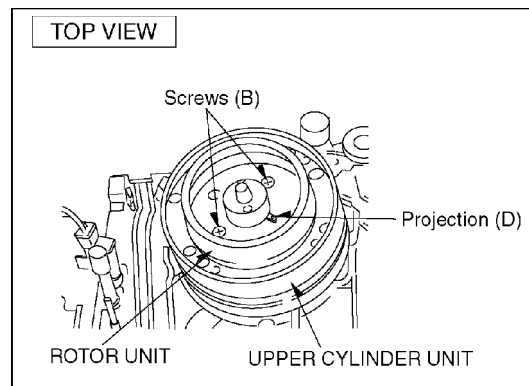
Fig. S5



3. Install the Cylinder Rotor Unit so that the inner hole of the Cylinder Rotor Unit fits to the small projection (D) on top of the Upper Cylinder.

4. Tighten 2 screws (B).

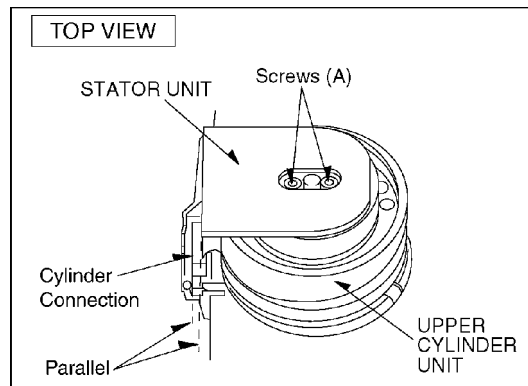
Fig. S6



5. install the Cylinder Stator Unit.

6. Tighten 2 screws (A).

Fig. S7

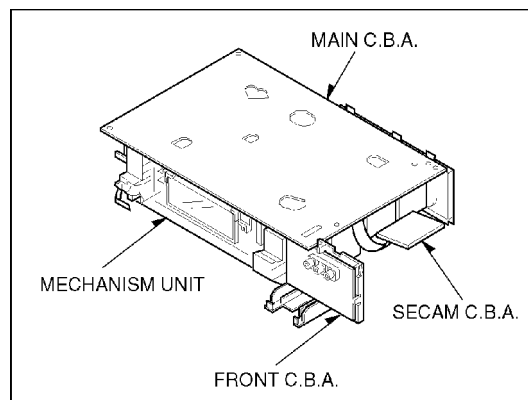


7. Confirm the PG SHIFTER ADJUSTMENT with the alignment tape (PAL: VFJ8125H3F) and adjust it if necessary.

2.1.3. CHECKING OF MAIN C.B.A.

When servicing the MAIN C.B.A., take out the MAIN C.B.A. and mechanism from the frame and turn over.

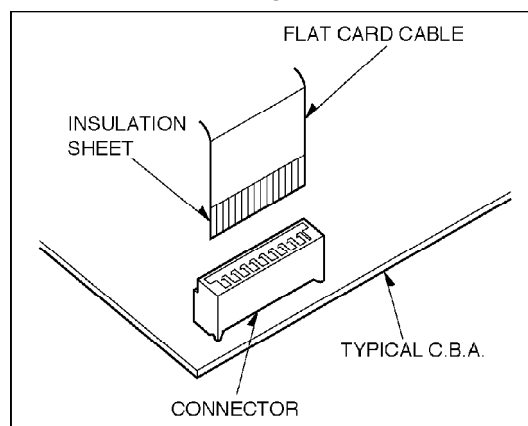
Fig. S8



2.1.4. FLAT CARD CABLE INSTALLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

Fig. S9



2.2. REMOVAL OF CASSETTE TAPE

There are 2 ways to remove a cassette tape.

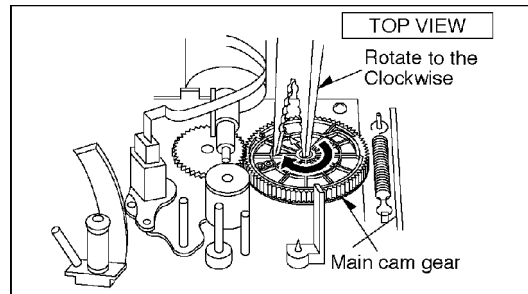
1. Service Information Display Operation

- A. Press the FF and EJECT keys simultaneously for 3 seconds and set the Service Mode 7.
- B. Press STOP key in order to rotate the Loading Motor for unloading operation. (Pay an attention of tape slack)

2. Manual Operation

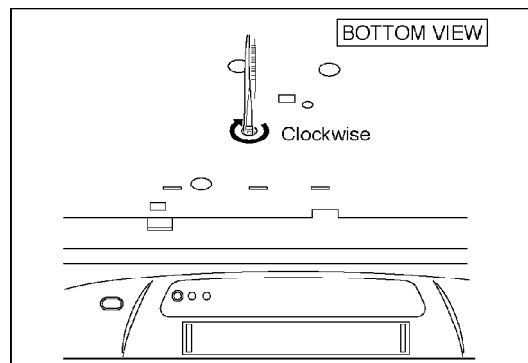
- A. Disconnect the AC Mains Lead and remove the Top Panel.
- B. Rotate the Main Cam Gear clockwise until the Loading Posts move to fully unloaded position as shown in **Fig. S10** . (Tape is remaining)

Fig. S10



- C. Rotate the Capstan Motor clockwise from the bottom side to take up the tape.

Fig. S11



- D. Rotate the Main Cam Gear clockwise until the cassette tape is ejected.

2.3. INTRODUCTION OF VIDEO HEAD CLEANING CASSETTE / (POLISHING TYPE)

1. We are pleased to introduce Panasonic Video Head Cleaning

Cassette, VFK0923FT [for service purposes] and VFK0923FSE [for end users] for all VHS/SVHS VCP and VCR.

2. These cleaning cassettes are exclusive removing the hard and sticky clogging on video heads.
3. These improve the efficiency of video head cleaning service and shortening cleaning time for end users.

VFK0923FT (For Service usage)	
Type of Cassette	Full VHS Cassette
Cleaning Time	10 Seconds/Time
Tape Length	20 m
Usability in a Path	180 Times
	

VFK0823FSE (For end users)	
Type of Cassette	Full VHS Cassette
Cleaning Time	10 Seconds/Time
Tape Length	3.34 m
Usability in a Path	30 Times
	

Note:

The tape material itself is the same in both types.

2.4. SELF-DIAGNOSIS RESULT DISPLAY

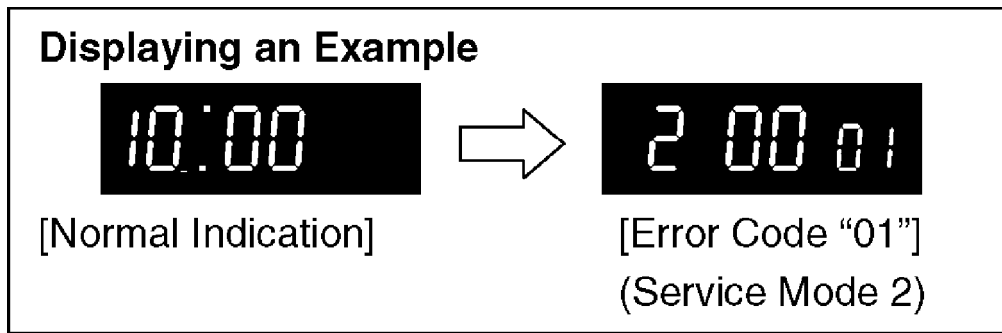
The "SELF-DIAGNOSIS RESULT DISPLAY & MEMORY function is built in this VTR.

It means that when the VCR detects undesirable condition, it can be displayed a "Error code (Two numbers from the right)" with Service Mode 2.

Since the "Error code" is stored in the EEPROM, it can be displayed although after disconnected the AC leads. It can be displayed with Service Mode 2.

(If a second error had been detected, only the most recent error is displayed.)

For more details, refer to the Service Manual for Z-Mechanism Chassis Order number VRD9802005C2.



INDICATION	CAUSE	REMEDY/CHECK
01	After cylinder lock is detected, the cylinder does not start rotating again even after tape unloading.	Check the cylinder motor drive circuit.
02	Cassette tape is not wound up during the tape unloading except EJECT mode.	Check the capstan motor drive circuit.
03	Mechanism locks during mode transition except EJECT mode.	1. Check the loading motor drive circuit. 2. Check the mechanism phase alignment. 3. Check the mode switch.
04	Mechanism locks during tape unloading.	1. Check the loading motor drive circuit. 2. Check the mechanism phase alignment.
06	Mechanism locks after tape unloading in EJECT mode.	1. Check the loading motor drive circuit. 2. Check the mechanism phase alignment for cassette.
07	During recording mode, recording signal is less than the normal condition.	Protection of the over-current flowing transistor which produces the power for recording mode.
08	Recording circuit works except recording mode.	Check the recording circuit.
16	Cylinder lock detection.	Check the cylinder unit and the cylinder drive circuit.
17	Supply reel mechanism lock detection	Check the supply reel mechanism and supply reel circuit.
18	Take-up reel mechanism lock detection	Check the Take-up reel mechanism and Take-up reel circuit.
2*	PG shifter automatic adjustment error.	Check the servo/system control circuit and cylinder unit.

Fig. T1 Self-Test indication Display

3. ADJUSTMENT PROCEDURES

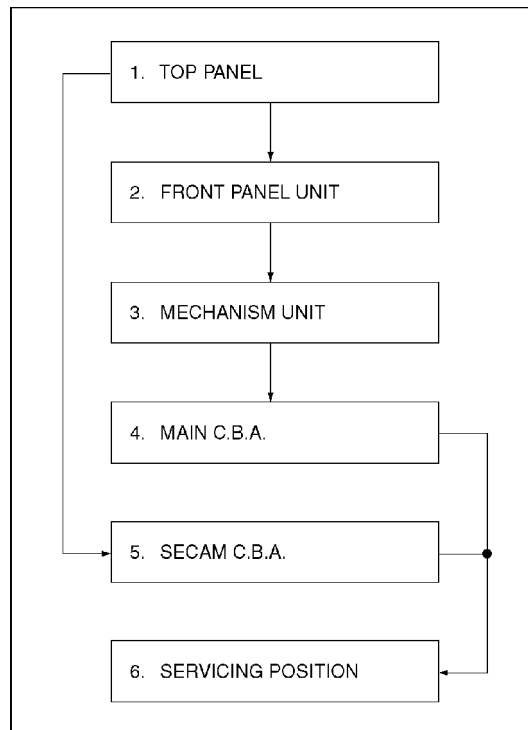
3.1. DISASSEMBLY METHOD

3.1.1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.

When reassembling, perform the steps in the reverse order.

Fig. D1

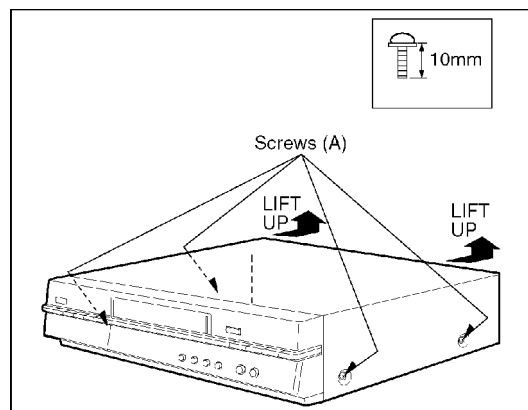


3.1.2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove	4 Screws (A)
--------	--------------

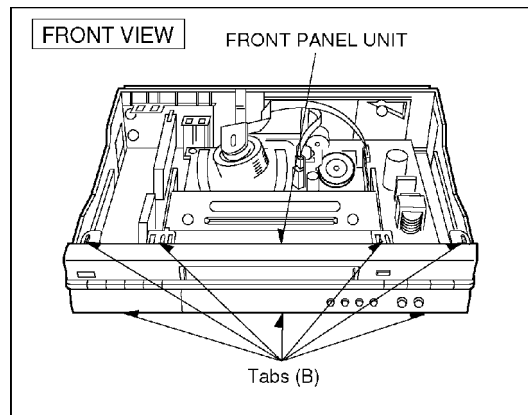
Fig.D2



2. REMOVAL OF THE FRONT PANEL UNIT

Unlock	7 Tabs (B)
--------	------------

Fig. D3



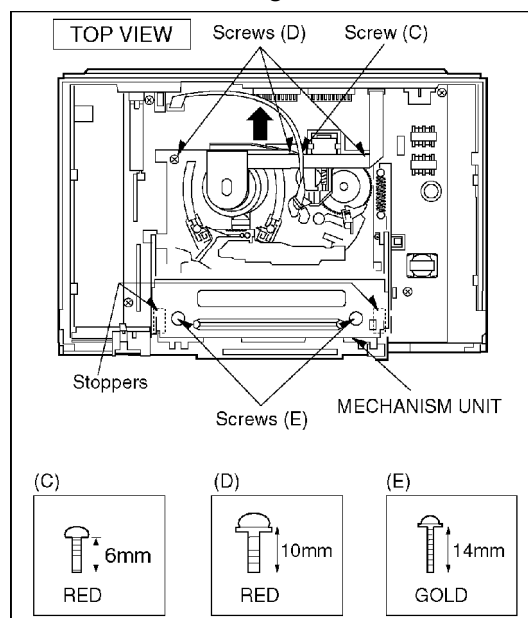
3. REMOVAL OF THE MECHANISM UNIT

Remove	Screw (C)
Remove	3 Screws (D)
Remove	2 Screws (E)

Note:

1. Keep pressing 2 stoppers on Cassette Holder Plate and Press Cassette Holder Plate to the rear.
2. Remove the Mechanism Unit after bend the Cylinder Shield in the direction of the arrow.

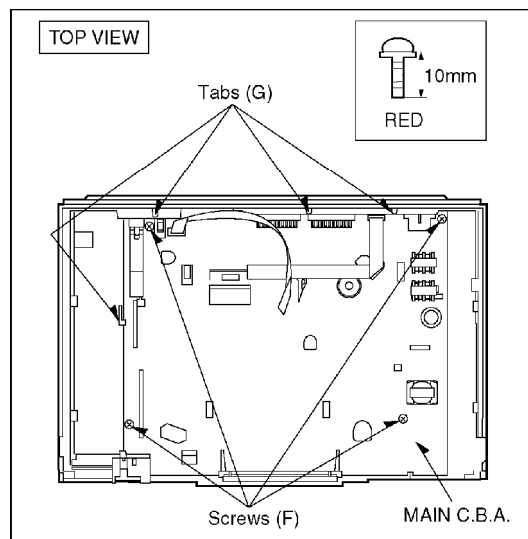
Fig. D4



4. REMOVAL OF THE MAIN C.B.A.

Remove	4 Screws (F)
Unlock	4 Tabs (G)

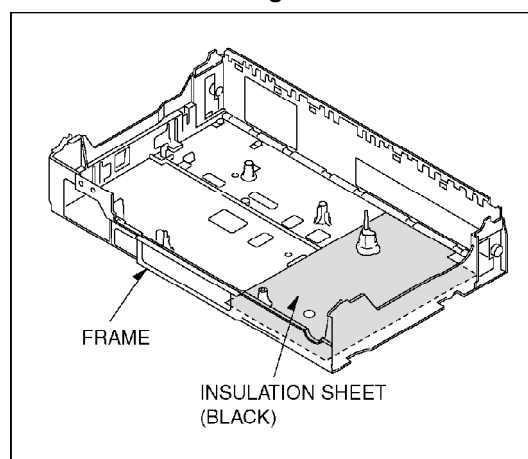
Fig. D5



NOTE:

Before mounting the MAIN C.B.A. onto the frame, be sure to confirm that the insulation sheet is mounted on the frame as shown in **Fig. D6** .

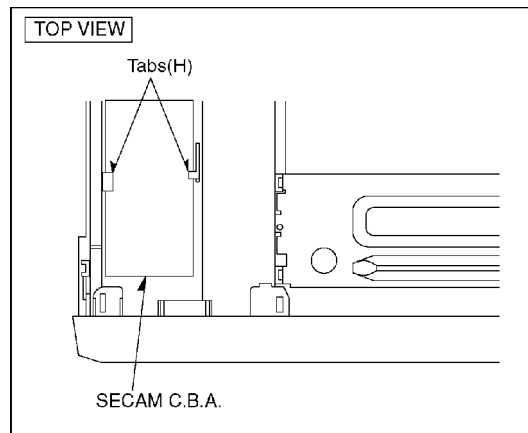
Fig. D6



5. REMOVAL OF THE SECAM C.B.A.

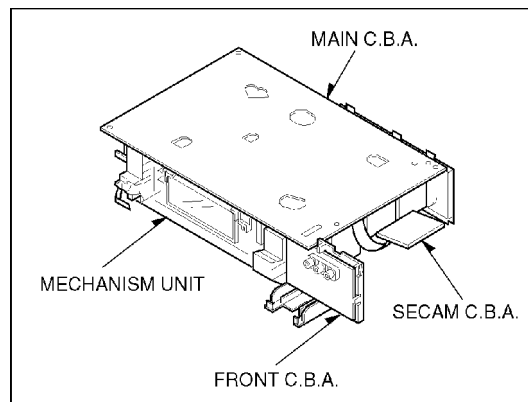
Unlock	2 Tabs (H)
--------	------------

Fig. D7



6. SERVICING POSITION

Fig. D8



3.2. MECHANICAL ADJUSTMENT PROCEDURES

Refer to the Service Manual for Z-Mechanism Chassis. / (Order No. VRD9802005C2)

3.3. ELECTRICAL ADJUSTMENT PROCEDURES

3.3.1. TEST EQUIPMENT

The following equipments are required for Electrical Adjustments.

1. Dual-Trace Oscilloscope

- Voltage Range: 0.005-5V/div
- Frequency Range: DC-35MHz
- Probes: 10:1 / 1:1

2. Frequency Counter

- Frequency Range: 0-10MHz
- Probes: 1:1

3. Universal Counter

4. Digital Volt Meter (D.V.M.)

5. Video Sweep Generator
6. Sinewave Generator
7. Video Pattern Generator
8. Monitor TV
9. DC Power Supply
10. VHS/S-VHS Blank Tape
11. VHS Alignment Tape

- Parts No.: VFJ8125H3F(PAL)

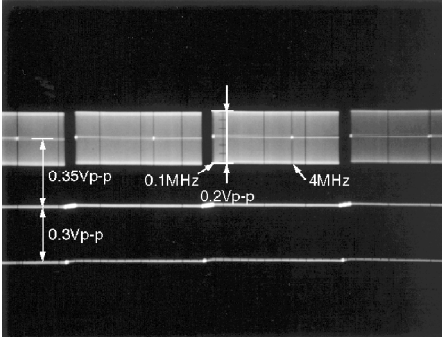
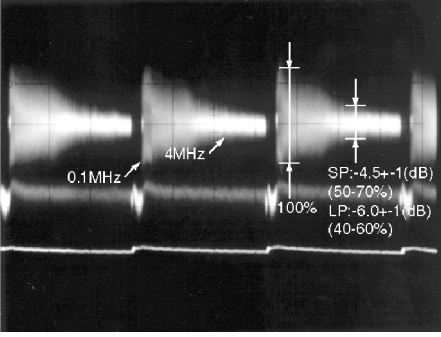
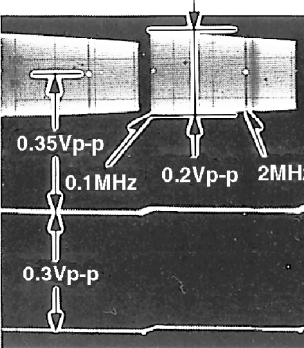
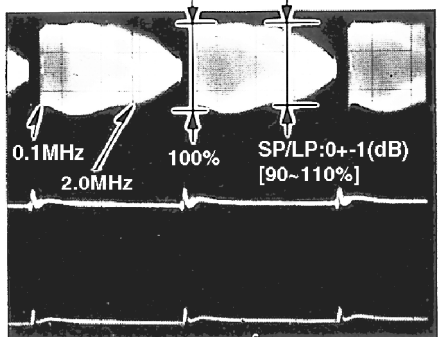
3.3.2. VCR SETTING

When no indication in the procedure, set each selector as follows.

1. TAPE SPEED: SP
2. CHANNEL: AV1/AV2/AV3
(Set to signal input terminal number)
3. S-VHS SW: ON

3.3.3. ADJUSTMENTS

ITEM	TP	ADJ.	MODE	INPUT	TAPE	M. EQ.	SPEC	REMARKS
PG SHIFTER ADJUSTMENT	---	---	PLAYBACK	---	ALIGNMENT TAPE (PAL)	---	---	Refer to procedure as shown in Fig. E5.
S-VHS FREQUENCY RESPONSE ADJUSTMENT	VIDEO OUT (TW3021)	---	SP/LP PLAYBACK (SELF-REC)	VIDEO SWEEP (See Fig. E1)	S-VHS BLANK TAPE	OSCILLO SCOPE/ VIDEO SWEEP GENERATOR	SP: -4.5+1 (dB) (50~70%) LP: -6.0+1 (dB) (40~60%) (See Fig. E2)	Refer to the procedure as shown in Fig. E6.
VHS FREQUENCY RESPONSE ADJUSTMENT	VIDEO OUT (TW3002)	---	SP/LP PLAYBACK (SELF-REC)	VIDEO SWEEP (See Fig. E3)	VHS BLANK TAPE	OSCILLO SCOPE/ VIDEO SWEEP GENERATOR	SP: 0+1 (dB) (90~110%) LP: 0+1 (dB) (90~110%) (See Fig. E4)	Refer to the procedure as shown in Fig. E7.

Fig.E1  0.35Vp-p 0.1MHz 0.2Vp-p 4MHz 0.3Vp-p CONDITION: BURST SIGNAL OFF / 75ohm TERMINATED	Fig.E2  0.1MHz 4MHz 100% SP:-4.5+-1(dB) (50-70%) LP:-6.0+-1(dB) (40-60%)	Fig.E3  0.35Vp-p 0.1MHz 0.2Vp-p 2MHz 0.3Vp-p CONDITION: BURST SIGNAL ON / 75ohm TERMINATED
Fig.E4  0.1MHz 2.0MHz 100% SP/LP:0+-1(dB) [90~110%]		

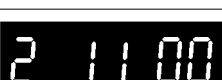
3.3.4. PG SHIFTER ADJUSTMENT / (AUTOMATIC)

PROCEDURES	FIP DISPLAY
Press the FF and EJECT Keys simultaneously for 3 seconds.	0 00 00
Press the FF and EJECT Keys simultaneously twice.	2 00 00
Press the EJECT key for 3 seconds.	2 00 00
Press the CH UP key once.	2 01 00
Insert the Alignment cassette tape. (PAL:VFJ8125H3F)	2 01 00

PROCEDURES	FIP DISPLAY
When the sequence of the automatical adjustment has been terminated, the following action has been made. *SUCCEED: The cassette tape is ejected. *ERROR : The "F2" is displayed on the FIP. (Check the Servo/Syscon circuit and Cylinder unit.)	
Release the Service mode by pressing the EJECT and FF keys simultaneously in 6 times until the FIP becomes normal indication.	

Fig. E5

3.3.5. S-VHS VIDEO FREQUENCY RESPONSE ADJUSTMENT

PROCEDURES	FIP DISPLAY
Set the 3D DNR SW to ON, and the S-VHS REC to ON in OSD menu function. / Insert the S-VHS BLANK TAPE. / Input the Video sweep signal (See Fig. E1) to AV3 (S-VIDEO IN) and record it in SP and LP.	
Press the FF and EJECT Keys simultaneously for 3 seconds.	
Press the FF and EJECT Keys simultaneously twice.	
Press the EJECT key for 3 seconds.	
Press the CH UP and/or CH DOWN key until "11" is displayed on FIP.	
Insert the Self-recorded tape and playback it. (SP/LP mode)	
Connect the Oscilloscope to: *CH1....Video Out (TW3021). *CH2....V.FREQ.(TW6002)	
Press the "4" key on the remote controller. (Confirm that TW6002 becomes high(2.5V)).	
Adjust the Frequency response by pressing the "2"(increase) and/or "8"(decrease) key on the Remote Controller. (See Fig.E2)	

PROCEDURES	FIP DISPLAY
Store the Adjusted value by pressing the "5" key on the Remote Controller.	
Release the Service mode by pressing the EJECT and FF keys simultaneously in 6 times until the FIP becomes normal indication.	

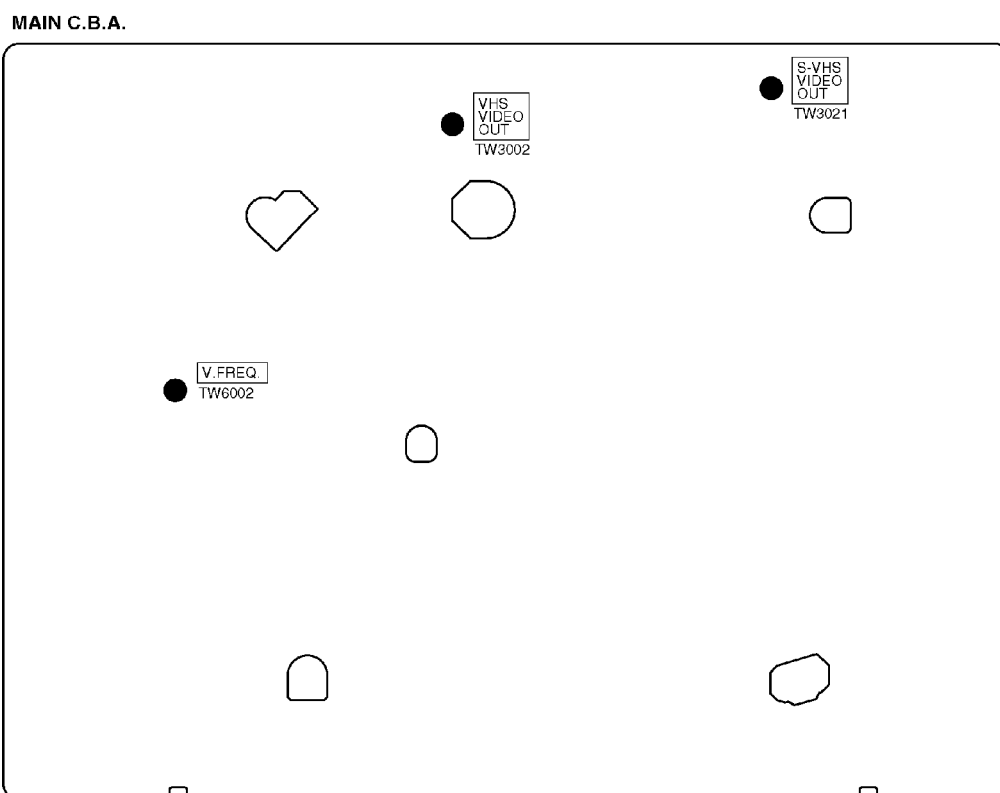
Fig. E6

3.3.6. VHS VIDEO FREQUENCY RESPONSE ADJUSTMENT

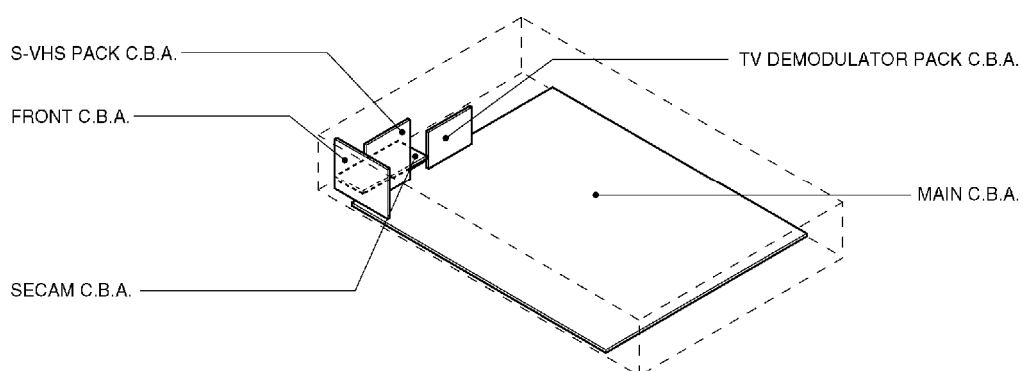
PROCEDURES	FIP DISPLAY
Set the S-VHS ET REC to OFF in OSD menu function, but the 3D DNR SW to ON. / Insert the VHS Blank Tape. / Input the Video sweep signal (See Fig. E3) to AV1 (VIDEO IN) and record it in SP and LP.	
Press the FF and EJECT Keys simultaneously for 3 seconds.	
Press the FF and EJECT Keys simultaneously twice.	
Press the EJECT key for 3 seconds.	
Press the CH UP and/or CH DOWN key until "11" is displayed on FIP.	
Insert the Self-recorded tape and playback it. (SP/LP mode)	
Connect the Oscilloscope to: *CH1....Video Out (TW3002). *CH2....V.FREQ.(TW6002)	
Press the "4" key on the remote controller. (Confirm that TW6002 becomes high(2.5V)).	
Adjust the Frequency response by pressing the "2"(increase) and/or "8"(decrease) key on the Remote Controller. (See Fig.E4)	
Store the Adjusted value by pressing the "5" key on the Remote Controller.	
Release the Service mode by pressing the EJECT and FF keys simultaneously in 6 times until the FIP becomes normal indication.	

Fig. E7

3.3.7. LOCATION OF TEST POINTS & CONTROLS



3.3.8. CIRCUIT BOARD LAYOUT



4. ABBREVIATIONS

5. INPUT/OUTPUT CHART

5.1. INPUT/OUTPUT CHART FOR IC6001

5.2. TRUTH TABLE

6. WAVEFORM TABLE & VOLTAGE CHART

6.1. WAVEFORM TABLE

6.2. VOLTAGE CHART

7. BLOCK DIAGRAMS

7.1. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

7.2. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

7.3. S-VHS BLOCK DIAGRAM

7.4. SECAM BLOCK DIAGRAM

7.5. AUDIO BLOCK DIAGRAM

8. SCHEMATIC DIAGRAMS

8.1. POWER TRANSFORMER SECTION IN MAIN SCHEMATIC DIAGRAM

8.2. POWER SUPPLY/ RF SECTION IN MAIN SCHEMATIC DIAGRAM

8.3. TIMER SECTION IN MAIN SCHEMATIC DIAGRAM

8.4. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM

8.5. LUMINANCE & CHROMINANCE/ AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

8.6. Hi-Fi AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

8.7. INPUT/ OUTPUT SECTION IN MAIN SCHEMATIC DIAGRAM

8.8. DECODER SECTION IN MAIN SCHEMATIC DIAGRAM

8.9. SECAM SCHEMATIC DIAGRAM

8.10. S-VHS PACK SCHEMATIC DIAGRAM

8.11. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

8.12. FRONT SCHEMATIC DIAGRAM

8.13. CYLINDER STATOR UNIT SCHEMATIC DIAGRAM

8.14. CAPSTAN UNIT SCHEMATIC DIAGRAM

9. CIRCUIT BOARD ASSEMBLIES

9.1. TV DEMODULATOR PACK C.B.A.

9.2. CYLINDER STATOR UNIT

9.3. FRONT C.B.A.

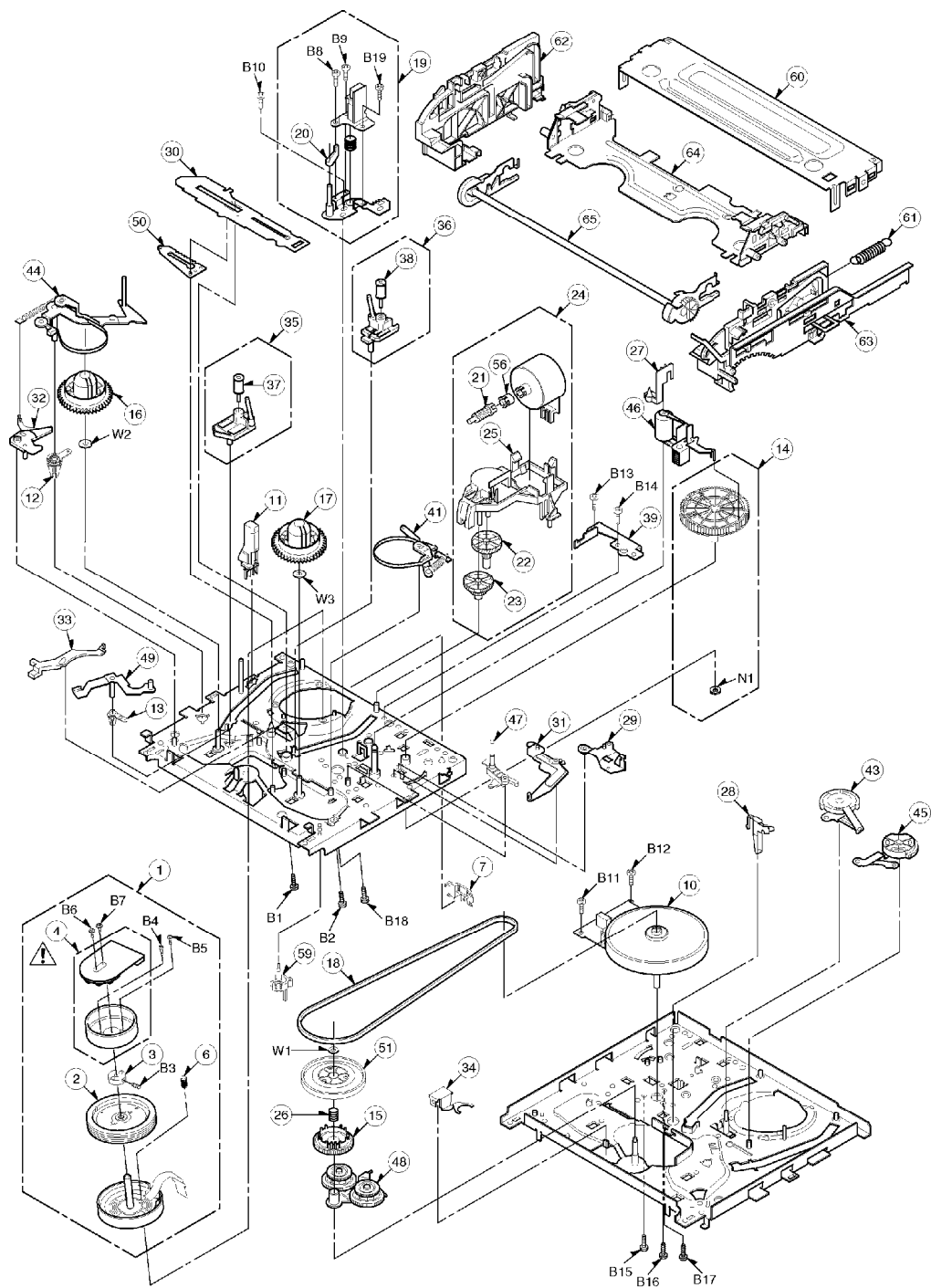
9.4. MAIN C.B.A.

9.5. S-VHS PACK C.B.A.

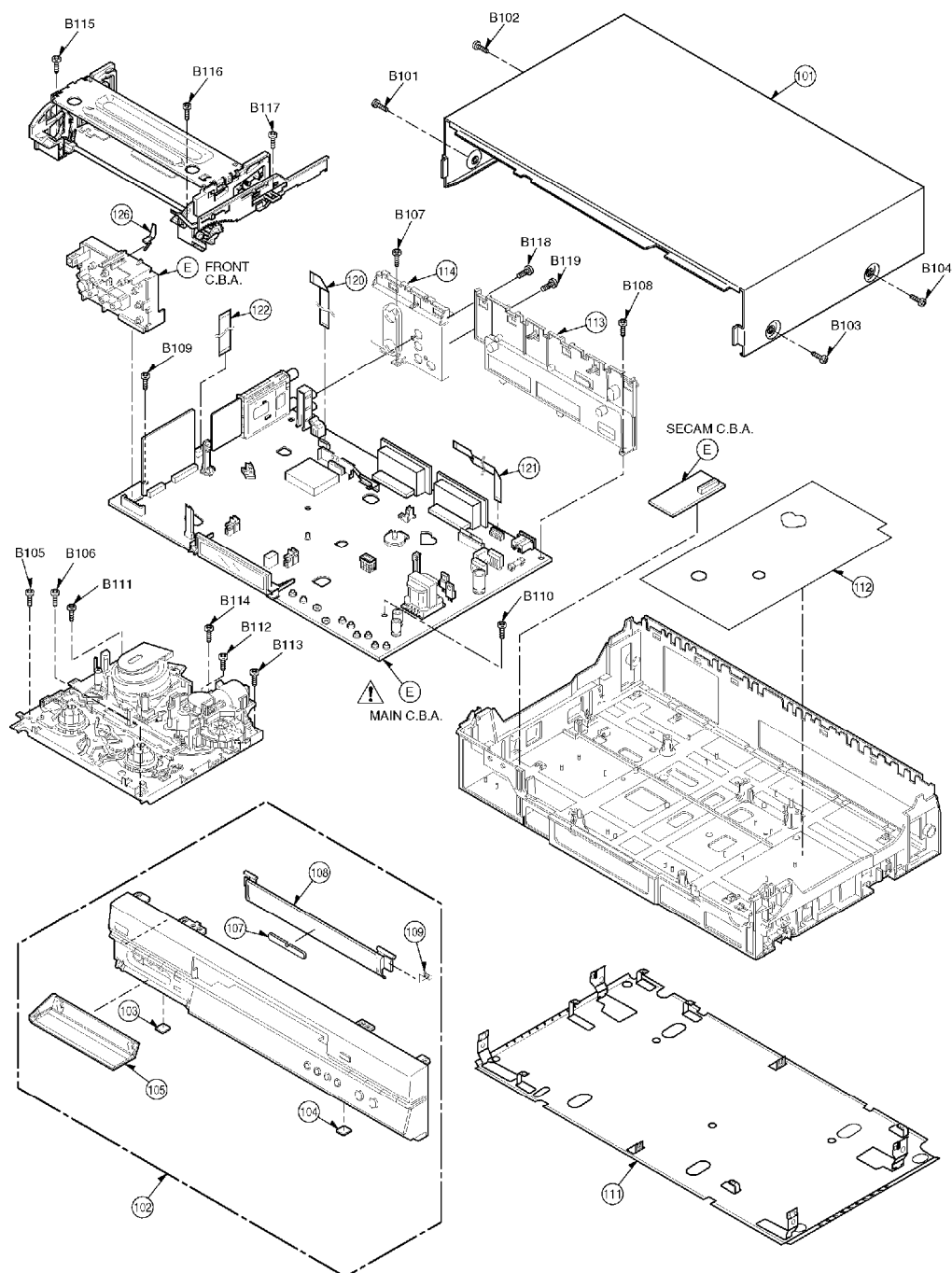
9.6. SECAM C.B.A.

10. EXPLODED VIEWS

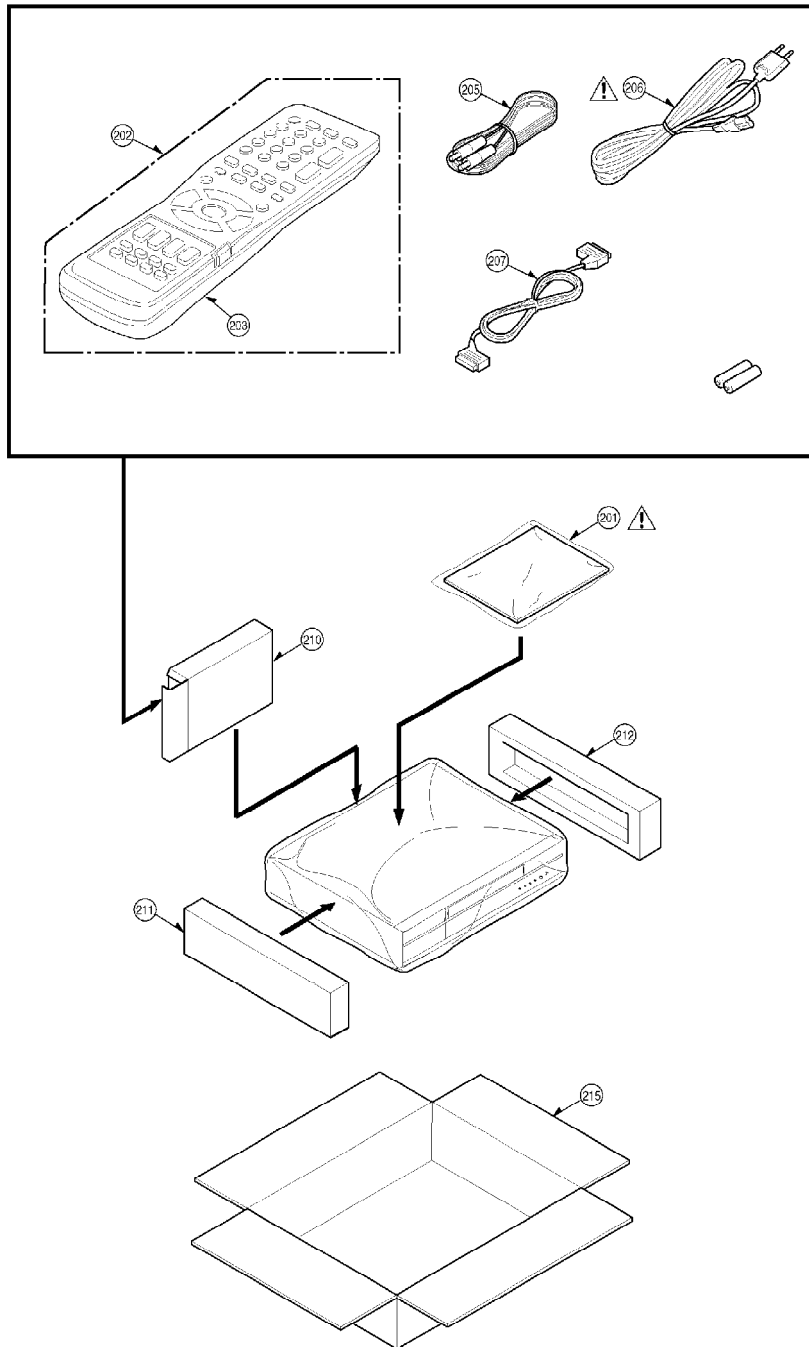
10.1. CHASSIS PARTS SECTION



10.2. CASING PARTS SECTION



10.3. PACKING PARTS SECTION



11. REPLACEMENT PARTS LIST

11.1. CHASSIS PARTS SECTION PARTS LIST

- All parts except parts mentioned [AVC-SPC] in the Remarks column are supplied from MAVD.

Parts mentioned [AVC-SPC] are supplied from PAVC-CSG (AVC-SPC).

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
1	VEG1601	CYLINDER UNIT	
2	VXP2174	UPPER CYLINDER UNIT	
3	VDB1256	CYLINDER RETAINER	
4	VEM0715	CYLINDER MOTOR UNIT	
6	VXS0135	EARTH BRUSH UNIT	
7	VMD3795	FLAT CABLE HOLDER	
10	VEK9069	CAPSTAN UNIT	
11	L1AZ00000004	FE HEAD	
12	VDB1431	TENSION ARM BOSS	
13	VDB1460	SUPPLY BRAKE ARM BOSS	
14	VDG1220KIT	MAIN CAM GEAR	
15	VDG1221	CONVERSION GEAR	
16	VDR0350	REEL TABLE	
17	VDR0350	REEL TABLE	
18	VDV0382	CAPSTAN BELT	
19	VED0412	A/C HEAD UNIT	
20	VMX2656	P4 CAP	
21	VDG1217	WORM GEAR	
22	VDG1218	WORM WHEEL GEAR	
23	VDG1219	CENTRE GEAR	
24	VEM0604	LOADING MOTOR UNIT	
25	VMD2619	MOTOR BRACKET	
26	VMB3045	CONVERSION GEAR SPRING	
27	VMD2620	OPENER PIECE	
28	VMD2738	LED PRISM	
29	VML3165	DRIVE RACK ARM	
30	VML3166	MAIN LEVER	
31	VML3167	DRIVE MAIN LEVER ARM	
32	VML3172	SUPPLY SPRING ARM	
33	VML3176	CONVERSION LEVER A	
34	VML3177	CONVERSION LEVER B	
35	VXA6040	INCLINED BASE (S) UNIT	
36	VXA5854	INCLINED BASE (T) UNIT	
37	VXP1891	ROLLER POST (S) UNIT	
38	VXP1891	ROLLER POST (T) UNIT	
39	VMA9672	SUPPORT ANGLE	
41	VXL2667	TAKE UP BRAKE ARM UNIT	
43	VXL2670	TAKE UP LOADING ARM UNIT	
44	VXL2798	TENSION ARM UNIT	
45	VXL2672	SUPPLY LOADING ARM UNIT	
46	VXL2785	PINCH ARM UNIT	
47	VXL2996	P5 ARM UNIT	
48	VXL2792	IDLER ARM UNIT	
49	VXL2733	SUPPLY BRAKE ARM UNIT	
50	VML3271	LOADING RACK B	
51	VXP2035	CENTRE CLUTCH UNIT	
56	VDP1660	MOTOR COUPLING	
59	VMD2858	S DETECT ACTUATOR	
60	VMA9516	TOP PLATE	
61	VMB3047	CONNECTION SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
62	VMD3379	SIDE PLATE (L)	
63	VXA6540	SIDE PLATE (R) UNIT	
64	VXA5746	CASSETTE HOLDER UNIT	
65	VXP1730	MAIN SHAFT UNIT	
B1	VHD1117	SCREW	
B2	VHD1117	SCREW	
B3	VHD0842	SCREW	
B4	VHD0843	SCREW	
B5	VHD0843	SCREW	
B6	VHD0844	SCREW	
B7	VHD0844	SCREW	
B8	VHD1066	SCREW	
B9	VHD1066	SCREW	
B10	VHD1044	SCREW	
B11	VHD1060	SCREW	
B12	VHD1071	SCREW	
B13	XTS26+6F	SCREW	
B14	XTN26+6F	SCREW	
B15	XTN26+7J	SCREW	
B16	XTN26+7J	SCREW	
B17	XTN26+7J	SCREW	
B18	VHD1095	SCREW	
B19	VHD1185	SCREW	
N1	VHN0311	PUSH NUT	
W1	VMX2208	WASHER	
W2	VMX3022	WASHER	
W3	VMX3022	WASHER	

11.2. CASING PARTS SECTION PARTS LIST

- All parts except parts mentioned [AVC-SPC] in the Remarks column are supplied from MAVD.

Parts mentioned [AVC-SPC] are supplied from PAVC-CSG (AVC-SPC).

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
101	VGM1990	TOP PANEL silver	
102	VYP8699	FRONT PANEL U SV120	
103	RKA0072-K	FOOT	
104	RKA0072-K	FOOT	
105	VYF2892	DOOR UNIT	
107	VGB0554	SUPER DRIVE BADGE	
108	VKF3706	BLINDER PANEL	
109	VMB2521	BLINDER SPRING	
111	VKU0575	BOTTOM PLATE	
112	VMZ3099-W	V0 SHEET	VMZ3099
113	VJH1175	JACK BOARD	
114	VJH1231	ANT BOARD SV120	
120	VWJ1651	FFC (P4002-A/C HEAD)	
121	VWJ1282	FFC (P2502-CYL)	
122	VWJ15AW100MM	FFC	
126	VMC1721	EARTH SPRING	
B101	XTW3+10TFC	SCREW TOP CASE	
B102	XTW3+10TFC	SCREW TOP CASE	
B103	XTW3+10TFC	SCREW TOP CASE	
B104	XTW3+10TFC	SCREW TOP CASE	
B105	VHD0168	SCREW FOR MECHA.CHAS	
B106	VHD0168	SCREW FOR MECHA.CHAS	
B107	VHD1092	SCREW	
B108	VHD1092	SCREW	
B109	VHD1092	SCREW	
B110	VHD1092	SCREW	
B111	VHD1092	SCREW	
B112	VHD1092	SCREW	
B113	VHD1092	SCREW	
B114	XTV26+8FR	SCREW	
B115	XTV26+8FR	SCREW	
B116	XTV26+8FR	SCREW	
B117	XTV26+8FR	SCREW	
B118	XTV3+8GFZ	SCREW	
B119	XTV3+8GFZ	SCREW	

11.3. PACKING PARTS SECTION PARTS LIST

- All parts except parts mentioned [AVC-SPC] in the Remarks column are supplied from MAVD.

Parts mentioned [AVC-SPC] are supplied from PAVC-CSG (AVC-SPC).

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
201	RQTD0044-F	 OPERATING INSTRUCTIONS (FRENCH)	
202	N2QAKB000043	REMOTE HV60,MV20	
203	R0186-720010	BATTERY COVER	
205	K1TWACB00005	RF CABLE F-MODELLE	
206	RJA0043-1C	 POWERCORD(MINI/E+EG)	
207	VJA1057	21 PIN CABLE	
210	VPK2246	ACCESSORIES PACKING	
211	VPN5555	CUSHION (L)	
212	VPN5554	CUSHION (R)	
215	VPG0S68	PACK.CASE	
		SERVICE FIXTURES & TOOLS	
	VFJ8125H3F	VHS ALIGNMENT TAPE (PAL)	[AVC-SPC]
	VFK0335	RETAINING RING REMOVER (3mm/4mm)	[AVC-SPC]
	VFK0329	POST ADJUSTMENT SCREWDRIVER	[AVC-SPC]
	VFK0326	HEX WRENCH SET	[AVC-SPC]
	VFK0132	BACK TENSION METER	[AVC-SPC]
	VFK27	HEAD CLEANING STICK	[AVC-SPC]
	VFK1024	MOLYTONE GREASE	[AVC-SPC]
	VFK0330	FINE ADJUSTMENT GEAR DRIVER	[AVC-SPC]
	VFK1301	SILICONE GREASE	[AVC-SPC]
	VFK1298	FLOIL GREASE	[AVC-SPC]

11.4. ELECTRICAL PARTS LIST

- All parts except parts mentioned [AVC-SPC] in the Remarks column are supplied from MAVD.

Parts mentioned [AVC-SPC] are supplied from PAVC-CSG (AVC-SPC).

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified.
All resistors are in OHMS. K=1,000 OHMS. All capacitors are in MICROFARADS (uf). P=10uF.
4. The P.C. Board units marked with  show below the main assembled parts.
5. The marking (RTL) indicates the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP06F09D	MAIN C.B.A.	(RTL)
			THE FOLLOWING C.B.A. IS INCLUDED IN MAIN C.B.A.
			VEP07A47A-SK
■	VEP07A47A-SK	TV DEMODULATOR PACK C.B.A.	(RTL)
			INCLUDED IN MAIN C.B.A.(VEP06F09D).
■	VEP03G25A	S-VHS PACK C.B.A.	(RTL)
■	VEP04832A	FRONT C.B.A.	(RTL)
■	VEP08328A	SECAM C.B.A.	(RTL)
■	-----	CYLINDER STATOR C.B.A.	INCLUDED IN CYLINDER STATOR UNIT (VEM0715).
■	-----	CAPSTAN DRIVE C.B.A.	INCLUDED IN CAPSTAN UNIT (VEK9069).
■	VEP06F09D	MAIN C.B.A.	(RTL)
C0701	F1H1H103A220	CHIP CAPACITOR	
C0702	ECJ2VC1H151J	CHIP CAPACITOR	
C0703	F1H1H103A220	CHIP CAPACITOR	
C0704	ECJ2VC1H270J	CHIP CAPACITOR	
C0705	F1H1H103A220	CHIP CAPACITOR	
C0706	ECJ2VF1H103Z	CHIP CAPACITOR	
C0707	F1H1H103A220	CHIP CAPACITOR	
C0708	F1H1H103A220	CHIP CAPACITOR	
C0709	F1H1H103A220	CHIP CAPACITOR	
C0710	F1H1H103A220	CHIP CAPACITOR	
C0712	F1J1C4740012	CHIP CAPACITOR	
C0714	F1H1H103A220	CHIP CAPACITOR	
C0715	F1H1H103A220	CHIP CAPACITOR	
C0716	ECJ1VC1H391J	CHIP CAPACITOR	
C0717	F1H1H103A220	CHIP CAPACITOR	
C0719	F1J1C4740012	CHIP CAPACITOR	
C0720	F1H1H103A220	CHIP CAPACITOR	
C0721	F1H1H103A220	CHIP CAPACITOR	
C0722	ECJ2VF1H104Z	CHIP CAPACITOR	ECUV1H104ZFN
C0723	ECEA1CKA101B	ALU ELEC CAPACITOR	
C0725	ECEA1HKA2R2B	ALU ELEC CAPACITOR	
C0726	F1H1H152A219	CHIP CAPACITOR	
C0728	ECEA1HKA0R1B	ALU ELEC CAPACITOR	
C0729	F1H1H103A220	CHIP CAPACITOR	
C0730	ECEA1CKA220B	ALU ELEC CAPACITOR	
C0733	ECEA1HKAR22B	ALU ELEC CAPACITOR	
C0734	F1H1H152A219	CHIP CAPACITOR	
C0735	F1H1H103A220	CHIP CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C0738	ECJ1VC1H390J	CHIP CAPACITOR	
C0739	F1H1H470A230	CHIP CAPACITOR	
C0740	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
C0741	F1H1H103A220	CHIP CAPACITOR	
C0742	F1H1H330A230	CHIP CAPACITOR	
C0743	F1H1H180A230	CHIP CAPACITOR	
C1002	EEUEB1E470SB	ALU ELEC CAPACITOR	
C1003	F1H1C104A071	CHIP CAPACITOR	
C1004	EEUEB1E470SB	ALU ELEC CAPACITOR	
C1008	F1H1C104A071	CHIP CAPACITOR	
C1009	F1H1C104A071	CHIP CAPACITOR	
C1011	EEUEB1E470SB	ALU ELEC CAPACITOR	
C1016	ECA1CHJ101B	ALU ELEC CAPACITOR	
C1018	F1H1C104A071	CHIP CAPACITOR	
C1019	F1H1C104A071	CHIP CAPACITOR	
C1020	F1H1C104A071	CHIP CAPACITOR	
C1025	ECUY1H104KBN	CHIP CAPACITOR	
C1026	ECUY1H104KBN	CHIP CAPACITOR	
C1027	F1H1C104A071	CHIP CAPACITOR	
C1028	EEUEB1E470SB	ALU ELEC CAPACITOR	
C1120	VCF2AAF683M	EMI CAPACITOR	 ECQU2A683MVA
C1121	F1BAF1020020	CAPACITOR	
C1123	F1BAF1020020	CAPACITOR	
C1141	EEUEB2G330E	ALU ELEC CAPACITOR	
C1151	ECQB1H473JF3	PLAST FILM CAPACITOR	
C1152	ECQB1H103JF3	PLAST FILM CAPACITOR	
C1153	ECQV1H104JL3	PLAST FILM CAPACITOR	
C1154	ECQB1H223JF3	PLAST FILM CAPACITOR	
C1155	F1A3A271A028	CAPACITOR	
C1200	ECQV1H104JL3	PLAST FILM CAPACITOR	
C1210	F1B3A332A004	CAPACITOR	
C1230	F2A1H2200032	ALU ELEC CAPACITOR	
C1250	F2A1E6810012	ALU ELEC CAPACITOR	
C1251	F2A1E101A122	ALU ELEC CAPACITOR	ECA1EM101B
C1260	F2A1A1220008	ALU ELEC CAPACITOR	
C1261	ECA1AHJ331B	ALU ELEC CAPACITOR	
C1270	F2A1H2200032	ALU ELEC CAPACITOR	
C1280	F2A1A1010072	ALU ELEC CAPACITOR	
C2501	ECJ1VB1C563K	CHIP CAPACITOR	ECUV1C563KBV
C2502	F1H1C104A071	CHIP CAPACITOR	
C2503	F1H1C104A008	CHIP CAPACITOR	
C2506	ECJ1VB1C563K	CHIP CAPACITOR	ECUV1C563KBV
C2507	ECJ1VB1C563K	CHIP CAPACITOR	ECUV1C563KBV
C2508	F1H1C104A071	CHIP CAPACITOR	
C2509	ECJ1VF1C474Z	CHIP CAPACITOR	ECUV1C474ZV
C2510	F1H1H330A230	CHIP CAPACITOR	
C2511	ECEA0JKN220B	ALU ELEC CAPACITOR	
C2512	ECEA1EKA4R7B	ALU ELEC CAPACITOR	
C2513	ECJ1VB1H392K	CHIP CAPACITOR	ECUV1H392KBV
C2514	F1H1C104A008	CHIP CAPACITOR	
C2515	ECEA1VKN4R7B	ALU ELEC CAPACITOR	
C2516	ECEA1VKN4R7B	ALU ELEC CAPACITOR	
C2517	ECEA0JKA470B	ALU ELEC CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C2518	ECUV1H473ZV	CHIP CAPACITOR	ECJ1VF1H473Z
C2519	ECEA1EKA470B	ALU ELEC CAPACITOR	
C2520	ECJ1VB1C683K	CHIP CAPACITOR	
C2521	ECJ1VB1A154K	CHIP CAPACITOR	
C2522	ECJ1VB1A154K	CHIP CAPACITOR	
C2523	ECJ1VB1A154K	CHIP CAPACITOR	
C2524	ECEA1VKN4R7B	ALU ELEC CAPACITOR	
C3001	ECJ1VC1H151J	CHIP CAPACITOR	ECUV1H151JCV
C3002	F1H0J105A002	CHIP CAPACITOR	
C3003	F1H1C104A071	CHIP CAPACITOR	
C3005	F1H1H270A230	CHIP CAPACITOR	
C3006	F1H1C104A071	CHIP CAPACITOR	
C3007	ECJ1VF1A105Z	CHIP CAPACITOR	ECUV1A105ZV
C3008	ECEA1HKA4R7B	ALU ELEC CAPACITOR	
C3009	ECJ1VF1A105Z	CHIP CAPACITOR	ECUV1A105ZV
C3010	ECJ1VF1A105Z	CHIP CAPACITOR	ECUV1A105ZV
C3011	F1H1H103A220	CHIP CAPACITOR	
C3012	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3013	F1H1C104A071	CHIP CAPACITOR	
C3014	F1H1C104A071	CHIP CAPACITOR	
C3015	F1H0J105A002	CHIP CAPACITOR	
C3016	F1H1C104A071	CHIP CAPACITOR	
C3017	F1H1C104A071	CHIP CAPACITOR	
C3019	F1H1C104A071	CHIP CAPACITOR	
C3020	ECEA1HKA3R3B	ALU ELEC CAPACITOR	
C3021	ECEA1CKA100B	ALU ELEC CAPACITOR	
C3023	F1H1H103A748	CHIP CAPACITOR	
C3024	ECJ1VC1H331J	CHIP CAPACITOR	ECUV1H331JCV
C3025	F1H1H103A220	CHIP CAPACITOR	
C3026	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3027	ECEA1HKA010B	ALU ELEC CAPACITOR	
C3028	ECEA1HKA4R7B	ALU ELEC CAPACITOR	
C3029	ECEA1HKAR47B	ALU ELEC CAPACITOR	
C3030	F1H1E223A029	CHIP CAPACITOR	
C3031	F1H1C333A059	CHIP CAPACITOR	
C3032	ECEA1HKA3R3B	ALU ELEC CAPACITOR	
C3033	F1H1C104A071	CHIP CAPACITOR	
C3034	ECEA1HKA2R2B	ALU ELEC CAPACITOR	
C3035	F1H1E223A029	CHIP CAPACITOR	
C3036	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3037	F1H1H103A220	CHIP CAPACITOR	
C3038	ECJ1VC1H030C	CHIP CAPACITOR	ECUV1H030CCV
C3039	ECEA1HKA010B	ALU ELEC CAPACITOR	
C3040	F1H1H103A220	CHIP CAPACITOR	
C3041	F1H1H103A220	CHIP CAPACITOR	
C3042	ECJ1VF1A105Z	CHIP CAPACITOR	ECUV1A105ZV
C3051	ECEA1CKA100B	ALU ELEC CAPACITOR	
C3053	F1H1H103A220	CHIP CAPACITOR	
C3054	F1H1H470A230	CHIP CAPACITOR	
C3058	F1H1C104A071	CHIP CAPACITOR	
C3060	ECJ1VC1H390J	CHIP CAPACITOR	
C3062	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
C3063	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C3064	F1H1H103A220	CHIP CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C3065	F1H1H103A220	CHIP CAPACITOR	
C3066	F1H1H103A220	CHIP CAPACITOR	
C3067	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3068	F1H1C104A008	CHIP CAPACITOR	
C3069	F1H1H270A230	CHIP CAPACITOR	
C3070	F1H1C104A071	CHIP CAPACITOR	
C3071	ECJ2VF1H104Z	CHIP CAPACITOR	ECUV1H104ZFN
C4001	ECEA0JKA101B	ALU ELEC CAPACITOR	
C4003	F1H1H472A219	CHIP CAPACITOR	
C4004	ECJ1VB1H122K	CHIP CAPACITOR	
C4005	ECEA0JKA220B	ALU ELEC CAPACITOR	
C4006	ECEA1EKA4R7B	ALU ELEC CAPACITOR	
C4008	ECEA1EKA3R3B	ALU ELEC CAPACITOR	
C4009	ECEA0JKA220B	ALU ELEC CAPACITOR	
C4011	ECJ1VB1H822K	CHIP CAPACITOR	ECUV1H822KBV
C4012	ECEA1HKA4R7B	ALU ELEC CAPACITOR	
C4013	F1H1H103A220	CHIP CAPACITOR	
C4014	ECEA0JKA470B	ALU ELEC CAPACITOR	
C4016	F1H1C104A071	CHIP CAPACITOR	
C4017	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4018	ECEA1HKA010B	ALU ELEC CAPACITOR	
C4019	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4020	F1H1H221A736	CHIP CAPACITOR	
C4021	ECQB1H223JF3	PLAST FILM CAPACITOR	
C4022	F1H1H152A219	CHIP CAPACITOR	
C4023	ECEA1AKA470B	ALU ELEC CAPACITOR	
C4024	F1H1E223A029	CHIP CAPACITOR	
C4025	ECEA1AKA220B	ALU ELEC CAPACITOR	
C4026	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4501	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4502	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4503	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4504	ECQB1H473JF3	PLAST FILM CAPACITOR	
C4505	ECEA1AKA330B	ALU ELEC CAPACITOR	
C4506	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4507	ECEA1CKA220B	ALU ELEC CAPACITOR	
C4508	ECQB1H153JF3	PLAST FILM CAPACITOR	
C4509	F1H1C333A059	CHIP CAPACITOR	
C4511	F1H1H103A748	CHIP CAPACITOR	
C4514	F1H1H103A748	CHIP CAPACITOR	
C4515	ECEA0JKA101B	ALU ELEC CAPACITOR	
C4516	F1H1C104A008	CHIP CAPACITOR	
C4517	F1H1C104A071	CHIP CAPACITOR	
C4519	F1H1A224A028	CHIP CAPACITOR	
C4520	ECQB1H153JF3	PLAST FILM CAPACITOR	
C4521	ECEA0JKS220B	ALU ELEC CAPACITOR	
C4522	ECEA1CKS100B	ALU ELEC CAPACITOR	
C4523	ECEA1AKS330B	ALU ELEC CAPACITOR	
C4524	ECQB1H473JF3	PLAST FILM CAPACITOR	
C4525	ECEA0JKA101B	ALU ELEC CAPACITOR	
C4526	F1H1C104A008	CHIP CAPACITOR	
C4529	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4530	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4531	ECEA1CKA100B	ALU ELEC CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C4532	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4533	ECEA1CKA100B	ALU ELEC CAPACITOR	
C4534	ECEA1CKA470B	ALU ELEC CAPACITOR	
C4538	F1H1C104A071	CHIP CAPACITOR	
C4539	F1H1C104A008	CHIP CAPACITOR	
C4540	F1H1C104A071	CHIP CAPACITOR	
C4541	F1H1C104A071	CHIP CAPACITOR	
C4544	F1H1H101A736	CHIP CAPACITOR	
C4545	F1H1H101A736	CHIP CAPACITOR	
C4901	F1H1H103A748	CHIP CAPACITOR	
C4902	ECJ2YB0J475K	CHIP CAPACITOR	
C4903	F1H1C104A008	CHIP CAPACITOR	
C4904	F1H1H470A230	CHIP CAPACITOR	
C4905	F1H1H470A230	CHIP CAPACITOR	
C4906	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C4907	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C4908	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C4909	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C4910	F1H1C104A071	CHIP CAPACITOR	
C4911	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C4912	F1H1H470A230	CHIP CAPACITOR	
C4913	F1H1H470A230	CHIP CAPACITOR	
C4914	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C4915	F1H1H101A736	CHIP CAPACITOR	
C4916	F1H1H101A736	CHIP CAPACITOR	
C4917	F1H1C104A071	CHIP CAPACITOR	
C4918	F1H1H103A748	CHIP CAPACITOR	
C4919	F1H1C104A071	CHIP CAPACITOR	
C4920	F1H1C104A071	CHIP CAPACITOR	
C4921	ECEA0JKA331Q	ALU ELEC CAPACITOR	
C4922	ECEA1HKA010B	ALU ELEC CAPACITOR	
C4923	ECEA0JKA331Q	ALU ELEC CAPACITOR	
C4924	F1H1C104A071	CHIP CAPACITOR	
C4925	F1H1C104A071	CHIP CAPACITOR	
C4926	F1H1H103A748	CHIP CAPACITOR	
C4927	F1H1H103A748	CHIP CAPACITOR	
C4928	F1H1C104A071	CHIP CAPACITOR	
C4929	F1H1H103A748	CHIP CAPACITOR	
C4930	F1H1C104A071	CHIP CAPACITOR	
C4931	F1H1C104A071	CHIP CAPACITOR	
C4932	F1H1C104A071	CHIP CAPACITOR	
C4933	F1H1H103A748	CHIP CAPACITOR	
C4934	F1H1C104A071	CHIP CAPACITOR	
C4935	F1H1H103A220	CHIP CAPACITOR	
C4936	F1H1C104A071	CHIP CAPACITOR	
C4943	F1H1C104A071	CHIP CAPACITOR	
C4952	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C4953	F1H1H470A230	CHIP CAPACITOR	
C4954	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C4955	F1H1H470A230	CHIP CAPACITOR	
C4956	F1H1H103A748	CHIP CAPACITOR	
C4957	ECEA0JKA331Q	ALU ELEC CAPACITOR	
C4958	F1H1C104A008	CHIP CAPACITOR	
C5001	F1H1H103A748	CHIP CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C5002	F1H1H103A748	CHIP CAPACITOR	
C5003	F1H1H103A748	CHIP CAPACITOR	
C5004	F1H1H103A748	CHIP CAPACITOR	
C5005	F1H1C104A071	CHIP CAPACITOR	
C5006	ECEA0JKA470B	ALU ELEC CAPACITOR	
C5007	F1H1C104A008	CHIP CAPACITOR	
C6001	ECEA0JKA470B	ALU ELEC CAPACITOR	
C6003	ECJ1VC1H471J	CHIP CAPACITOR	ECUV1H471JCV
C6004	F1H1H103A220	CHIP CAPACITOR	
C6005	F1H1H103A220	CHIP CAPACITOR	
C6009	F1H1H180A230	CHIP CAPACITOR	
C6010	F1H1H180A230	CHIP CAPACITOR	
C6011	F1H1H180A230	CHIP CAPACITOR	
C6012	F1H1H150A230	CHIP CAPACITOR	
C6015	ECEA1CKA100B	ALU ELEC CAPACITOR	
C6016	F1H1H103A220	CHIP CAPACITOR	
C6017	ECJ1VC1H681J	CHIP CAPACITOR	ECUV1H681JCV
C6022	F1H1H221A736	CHIP CAPACITOR	
C6023	ECJ1VF1A105Z	CHIP CAPACITOR	ECUV1A105ZFV
C6024	ECEA0JKA221B	ALU ELEC CAPACITOR	
C6025	F1H1C104A008	CHIP CAPACITOR	
C6027	F1H1C333A059	CHIP CAPACITOR	
C6028	F1H1H222A219	CHIP CAPACITOR	
C6029	ECJ1VF1C474Z	CHIP CAPACITOR	ECUV1C474ZFV
C6030	ECJ1VC1H151J	CHIP CAPACITOR	ECUV1H151JCV
C6031	F1H1C104A008	CHIP CAPACITOR	
C6032	ECEA0JKA470B	ALU ELEC CAPACITOR	
C6035	F1H0J105A002	CHIP CAPACITOR	
C6036	ECJ1VC1H561J	CHIP CAPACITOR	
C6038	ECJ1VC1H220J	CHIP CAPACITOR	ECUV1H220JCV
C6039	ECJ1VC1H220J	CHIP CAPACITOR	ECUV1H220JCV
C6040	ECJ1VF1H104Z	CHIP CAPACITOR	
C6041	ECJ1VF1H104Z	CHIP CAPACITOR	
C6042	ECJ1VF1H104Z	CHIP CAPACITOR	
C7501	F1H1H103A220	CHIP CAPACITOR	
C7502	ECEA1HKA100B	ALU ELEC CAPACITOR	
C7503	F1H1H120A230	CHIP CAPACITOR	
C7504	ECEA0JKA101B	ALU ELEC CAPACITOR	
C7507	F4D55473A005	ALU ELEC CAPACITOR	VCE0073-T
C7508	ECEA0JKA221B	ALU ELEC CAPACITOR	
C7509	ECUV1H682KBV	CHIP CAPACITOR	ECJ1VB1H682K
C7510	F1H1H103A220	CHIP CAPACITOR	
C7511	F1H1C104A008	CHIP CAPACITOR	
C7603	ECEA0JKA101B	ALU ELEC CAPACITOR	
C7605	F1H1H103A220	CHIP CAPACITOR	
C7607	ECEA1HKA010B	ALU ELEC CAPACITOR	
C7609	F1H1H330A230	CHIP CAPACITOR	
C7610	F1H1H330A230	CHIP CAPACITOR	
C7611	F1H1H330A230	CHIP CAPACITOR	
C7612	ECJ1VF1H104Z	CHIP CAPACITOR	
C7614	ECEA0JKA101B	ALU ELEC CAPACITOR	
C7615	F1H1H103A220	CHIP CAPACITOR	
C7617	F1H1H103A220	CHIP CAPACITOR	
C7621	ECEA1HKA2R2B	ALU ELEC CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C7622	F1H1C104A071	CHIP CAPACITOR	
C7624	F1H1C104A071	CHIP CAPACITOR	
C7625	F1H1H103A220	CHIP CAPACITOR	
C7628	F1H1C104A071	CHIP CAPACITOR	
C7630	ERJ3GEYJ822V	CHIP RESISTOR	ERJ3GSJ822V
C7631	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
C7634	F1H1H101A736	CHIP CAPACITOR	
C7635	ECEA0JKA470B	ALU ELEC CAPACITOR	
C7638	F1H1C104A071	CHIP CAPACITOR	
C7641	F1H1C104A071	CHIP CAPACITOR	
C7642	F1H1C104A071	CHIP CAPACITOR	
C7645	ECEA1CKA100B	ALU ELEC CAPACITOR	
C7646	ECEA1CKA100B	ALU ELEC CAPACITOR	
C7647	ECEA0JKA101B	ALU ELEC CAPACITOR	
C7648	F1H1H103A748	CHIP CAPACITOR	
C7651	ECEA1CKA100B	ALU ELEC CAPACITOR	
C7653	ECJ1VC1H100D	CHIP CAPACITOR	
C7654	ECJ1VC1H100D	CHIP CAPACITOR	
D0701	MA3Z080D0L	DIODE	
D0703	MA3Z080E0L	DIODE	
D1002	MAZ4056NHF	DIODE	MA4056N-HTA
D1003	MAZ4130NLF	DIODE	MA4130N-LTA
D1004	B0EAKL000031	DIODE	
D1005	MAZ4056NHF	DIODE	MA4056N-HTA
D1008	B0EAKL000031	DIODE	
D1009	MAZ40330HF	DIODE	
D1010	B0EADD000002	DIODE	1SS119-04TJ
D1011	MAZ4051NMF	DIODE	MA4051N-MTA
D1012	B0EADD000002	DIODE	1SS119-04TJ
D1110	ERZVA5V471	SURGE ABSORBER	
D1140	B0KB00000013	DIODE	
D1150	B0HAGM000006	DIODE	
D1152	MA2C18500E	DIODE (WHITE/GREEN)	MA185TA5
D1155	B0EADD000002	DIODE	1SS119-04TJ
D1157	MAZ40270LF	DIODE	
D1180	MAZ751000C	DIODE	
D1230	MA2C18500E	DIODE (WHITE/GREEN)	MA185TA5
D1250	B0JAMK000015	DIODE	
D1251	B0JAMK000015	DIODE	
D1262	B0JAPE000008	DIODE	
D1270	MA2C18500E	DIODE (WHITE/GREEN)	MA185TA5
D1280	B0JAME000025	DIODE (AK04V2)	11EQS04TA1
D1501	B3EA00000040	DIODE	SIR505STA47
D2501	B0EADD000002	DIODE	1SS119-04TJ
D2502	B0EADD000002	DIODE	1SS119-04TJ
D4502	B0EADD000002	DIODE	1SS119-04TJ
D4901	MAZ4075NMF	DIODE	MA4075N-MTA
D4902	MAZ4075NMF	DIODE	MA4075N-MTA
D4903	B0EADD000002	DIODE	1SS119-04TJ
D6004	B0ACCK000005	DIODE	1SS355TE-17
D7501	MAZ4240NMF	DIODE	
D7503	B0JACE000001	DIODE	RB441PT-77
D7601	MAZ43000MF	DIODE	MA4300-MTA

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Ref. No.	Part No.	Part Name & Description	Remarks
DP7501	A2BA00000212	DISPLAY (VCR)	
F1101	K5D162BL0007	MINIATURE FUSE	 VSF0244C16
F1101	K5D162BL0007	MINIATURE FUSE	 K5Y162B00002
IC0701	C1AB00001598	INTEGRATED CIRCUIT	
IC1200	C0DAEJC00003	INTEGRATED CIRCUIT	UPC1093J-T
IC1501	B3EZ00000001	INTEGRATED CIRCUIT	RPI354N
IC1502	B3EZ00000001	INTEGRATED CIRCUIT	RPI354N
IC2501	AN3811NK-P	CYLINDER DRIVE IC	
IC3001	C1AB00001742	INTEGRATED CIRCUIT	
IC3002	C1AB00001340	INTEGRATED CIRCUIT	
IC4501	AN3656NFBPBV	INTEGRATED CIRCUIT	
IC4901	C1AB00000601	INTEGRATED CIRCUIT	
IC4902	C1AB00001614	INTEGRATED CIRCUIT	
IC6001	C2CBJG000262	INTEGRATED CIRCUIT	
IC6002	C3EAGC000015	EEPROM	M24C16-WBN6
IC6003	C1AB00001293	INTEGRATED CIRCUIT	SDA5650X
IC7501	C0HBB0000023	INTEGRATED CIRCUIT	M35502AFP-E1
IC7503	C0EBE0000211	INTEGRATED CIRCUIT	
IC7504	C0EBH0000218	INTEGRATED CIRCUIT	
IC7601	C0EAH0000051	INTEGRATED CIRCUIT	PST7043-T
IC7602	C1AB00001404	INTEGRATED CIRCUIT	TDA9874AH
JK4901	K1FB121B0003	CONNECTOR	
JK4902	K1FB121B0003	CONNECTOR	
JK4903	K2HZ105B0007	CONNECTOR	
JK4904	K2HA304B0005	LINE OUT TERMINAL	
K3003	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K3024	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K3025	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K3027	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K3028	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K4502	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K4911	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K4912	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K5005	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K6005	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K6006	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
K7615	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
L0702	ELJNAR18JF	CHIP INDUCTOR	
L0703	ELJNAR68JF	CHIP INDUCTOR	
L0704	ELJFA151KF	CHIP INDUCTOR	
L0705	ELJFA151KF	CHIP INDUCTOR	
L0706	ELJFA151KF	CHIP INDUCTOR	
L0707	ELJFA151KF	CHIP INDUCTOR	
L1120	ELF15N003AB	LINE FILTER	 ELF15N003A
L1121	ELF15N005AB	LINE FILTER	 ELF15N005A
L1250	G0A220G00018	FIXED INDUCTOR	
L1260	G0A220G00018	FIXED INDUCTOR	

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Ref. No.	Part No.	Part Name & Description	Remarks
L2501	G0C680JA0019	CHOKE COIL AXIAL	VLQ0599J680T
L3002	G0C820JA0019	CHOKE COIL AXIAL	
L3003	G0C270JA0019	CHOKE COIL AXIAL	VLQ0599J270T
L3004	G0C680JA0019	CHOKE COIL AXIAL	VLQ0599J680T
L3005	G0C270JA0019	CHOKE COIL AXIAL	VLQ0599J270T
L3006	G1C120J00001	FIXED INDUCTOR	
L3010	G0C390JA0019	CHOKE COIL AXIAL	VLQ0599J390T
L3014	G0C680JA0019	CHOKE COIL AXIAL	VLQ0599J680T
L3015	G1C470J00001	CHIP INDUCTOR	
L3016	G1C180J00001	CHIP INDUCTOR	
L4001	-----	JUMPER WIRE	
L4002	G0C680JA0019	CHOKE COIL AXIAL	VLQ0599J680T
L4501	G0C1R2J00004	CHOKE COIL AXIAL	VLQ0599J1R2T
L4502	G0C1R2J00004	CHOKE COIL AXIAL	VLQ0599J1R2T
L4503	G0C100JA0019	CHOKE COIL AXIAL	VLQ0599J100T
L4503	G0C100JA0019	CHOKE COIL AXIAL	ELEXT100JBV
L4901	G0CR22JA0019	CHOKE COIL AXIAL	VLQ0599JR22T
L4902	G0C330JA0019	CHOKE COIL AXIAL	VLQ0599J330T
L4903	G0C330JA0019	CHOKE COIL AXIAL	VLQ0599J330T
L5001	G0C680JA0019	CHOKE COIL AXIAL	VLQ0599J680T
L6001	G0C101JA0019	CHOKE COIL AXIAL	VLQ0599J101T
L6001	G0C101JA0019	CHOKE COIL AXIAL	ELEXT101JBV
L6005	-----	JUMPER WIRE	
L6006	G0C680JA0019	CHOKE COIL AXIAL	VLQ0599J680T
L7601	G0C270JA0019	CHOKE COIL AXIAL	VLQ0599J270T
L7605	G0C2R2JA0019	CHOKE COIL AXIAL	VLQ0599J2R2T
L7606	-----	JUMPER WIRE	
L7607	G0C2R2JA0019	CHOKE COIL AXIAL	VLQ0599J2R2T
L7608	G0C1R0JA0019	CHOKE COIL AXIAL	VLQ0599J1R0T
L7609	-----	JUMPER WIRE	
LB1213	J0JHC0000070	BEAD CORE	
LB4001	J0JBC0000070	CHIP INDUCTOR	
LB4002	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
LB4003	J0JBC0000070	CHIP INDUCTOR	
LB4004	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
LB4901	J0JBC0000041	BEAD CORE	VLP0147-T
LB4902	J0JBC0000041	BEAD CORE	VLP0147-T
LB4903	J0JBC0000041	BEAD CORE	VLP0147-T
LB4904	J0JBC0000041	BEAD CORE	VLP0147-T
LB4905	J0JBC0000041	BEAD CORE	VLP0147-T
LB4906	J0JBC0000041	BEAD CORE	VLP0147-T
LB4907	J0JBC0000041	BEAD CORE	VLP0147-T
LB4908	J0JBC0000041	BEAD CORE	VLP0147-T
LB4909	J0JBC0000041	BEAD CORE	VLP0147-T
LB4910	J0JBC0000041	BEAD CORE	VLP0147-T
LB4911	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
LB4912	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
LB4913	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
LB5003	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
LB5004	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
LB6001	J0JBC0000041	BEAD CORE	VLP0147-T
LB7601	J0JCC0000080	BEAD CORE	
LB7603	J0JCC0000124	BEAD CORE	

Ref. No.	Part No.	Part Name & Description	Remarks
LB7604	J0JCC0000124	BEAD CORE	
LR1150	J1ZZA0000001	BEAD CORE	
P1101	K2AA2K000012	AC INLET	
P1501	K1KB02A00035	CONNECTOR	VJS3837A002
P2501	K1KA12A00127	CONNECTOR	VJP3835E012
P2502	K1MN09A00023	CONNECTOR	
P3003	K1MN15A00033	CONNECTOR	VJS3537A015G
P4001	K1KB02A00035	CONNECTOR	VJS3837A002
P4002	K1MN06A00035	CONNECTOR	
P5001	K1MN10A00037	CONNECTOR	
PK0701	K1MR09A00028	CONNECTOR	
PP0701	K1KA04B00135	CONNECTOR	
PP3001	K1KA13A00042	CONNECTOR	
PP3002	K1KA18A00046	CONNECTOR	
PP3901	K1KA15A00064	CONNECTOR	VJP3042G015W
Q0702	2SD0601ASL	TRANSISTOR	
Q0703	2SB0709ARL	TRANSISTOR	2SB709A-RTX
Q1001	2SD0602ARL	TRANSISTOR	2SD602A-RTX
Q1002	B1AAGD000006	TRANSISTOR	
Q1003	2SB0710ARL	TRANSISTOR	2SB710A-RTX
Q1005	B1AAGD000006	TRANSISTOR	
Q1006	B1AAGD000006	TRANSISTOR	
Q1007	B1AAGD000006	TRANSISTOR	
Q1008	B1AAGD000006	TRANSISTOR	
Q1009	B1AAGD000006	TRANSISTOR	
Q1010	B1AAGD000006	TRANSISTOR	
Q1012	B1AAGD000006	TRANSISTOR	
Q1013	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q1150	B1DEDR000003	TRANSISTOR	
Q1151	2SD1992ARA	TRANSISTOR	
Q1152	2SC3311ASA	TRANSISTOR	2SC3311ARA
Q1153	B1DEDQ000014	TRANSISTOR	
Q1200	B3PBA0000078	PHOTO COUPLER	 PC123ZY2
Q1501	PNB2301MBV	TRANSISTOR	
Q1502	PNB2301MAV	TRANSISTOR	
Q3001	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q3006	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q3007	XN0650100L	MULTI.DIG.TRANSISTOR	XN6501-TX
Q4003	2SD114900L	TRANSISTOR	2SD1149-TX
Q4004	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q4005	2SD0602ARL	TRANSISTOR	2SD602A-RTX
Q4006	2SB0710ARL	TRANSISTOR	2SB710A-RTX
Q4901	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q4902	2SB0709ARL	TRANSISTOR	2SB709A-RTX
Q4903	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q4904	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q4905	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q4906	2SD13280SL	TRANSISTOR	2SD1328-STX

Ref. No.	Part No.	Part Name & Description	Remarks
Q6004	2SB0709ARL	TRANSISTOR	2SB709A-RTX
Q6008	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q6009	2SD0601ARN	TRANSISTOR	2SD601A-RTX
Q6010	2SB0709ARL	TRANSISTOR	2SB709A-RTX
QR0702	B1GBHBHH0002	DIGITAL TRANSISTOR	
QR1003	UNR211200L	TRANSISTOR	
QR1004	B1GDCFJJ0002	TRANSISTOR	DTA114EK-T146
QR1005	UNR221100L	TRANSISTOR	UN2211-TX
QR3003	UNR221300L	TRANSISTOR	
QR3006	B1GBCFLL0002	TRANSISTOR	DTC124EK-T146
QR3007	UNR221300L	TRANSISTOR	
QR4001	UNR221100L	TRANSISTOR	UN2211-TX
QR4002	B1GDCFJJ0002	TRANSISTOR	DTA114EK-T146
QR4005	B1GBCFLL0002	TRANSISTOR	DTC124EK-T146
QR4501	UNR211300L	TRANSISTOR	UN2113-TX
QR4503	XN0121600L	MULTI.DIG.TRANSISTOR	
QR4504	XN0121600L	MULTI.DIG.TRANSISTOR	
QR4901	B1GBCFJA0002	TRANSISTOR	DTC114TK-T146
QR4902	B1GBCFLL0002	TRANSISTOR	DTC124EK-T146
QR6001	B1GBCFJA0002	TRANSISTOR	DTC114TK-T146
QR6004	UNR221100L	TRANSISTOR	UN2211-TX
R0706	ERJ3GEYJ223V	CHIP RESISTOR	ERJ3GSJ223V
R0707	ERJ6GEYJ223V	CHIP RESISTOR	
R0708	ERJ6GEYJ562V	CHIP RESISTOR	
R0709	ERJ6GEYJ223V	CHIP RESISTOR	
R0710	ERJ6GEYJ223V	CHIP RESISTOR	
R0711	ERJ3GEYJ562V	CHIP RESISTOR	ERJ3GSJ562V
R0713	ERJ3GEYG181V	CHIP RESISTOR	
R0717	ERJ3GEYG562V	CHIP RESISTOR	
R0722	ERJ3GEYJ562V	CHIP RESISTOR	ERJ3GSJ562V
R0724	ERJ8GEYJ151V	CHIP RESISTOR	
R0726	ERJ3GEYJ561V	CHIP RESISTOR	ERJ3GSJ561V
R0727	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R0732	ERJ8GEYJ102V	CHIP RESISTOR	
R0733	ERJ3GEYG393V	CHIP RESISTOR	
R0734	ERJ3GEYG682V	CHIP RESISTOR	
R0735	ERJ3GEYJ101V	CHIP RESISTOR	ERJ3GSJ101V
R0737	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R0738	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
R0741	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R0750	ERJ6GEYG562V	CHIP RESISTOR	
R0755	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R0756	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R0757	ERJ3GEYJ752V	CHIP RESISTOR	
R1001	ERJ6GEYJ333V	CHIP RESISTOR	
R1003	ERJ6GEYJ273V	CHIP RESISTOR	
R1004	ERDS2TJ102T	CARBON RESISTOR	
R1005	ERJ6GEYJ562V	CHIP RESISTOR	
R1006	ERJ6GEYJ562V	CHIP RESISTOR	
R1008	ERDS2TJ471T	CARBON RESISTOR	
R1009	ERDS2TJ471T	CARBON RESISTOR	
R1013	ERDS2TJ103T	CARBON RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R1014	ERJ6GEYJ472V	CHIP RESISTOR	
R1015	ERDS2TJ103T	CARBON RESISTOR	
R1016	ERJ6GEYJ103V	CHIP RESISTOR	
R1017	ERJ6GEYJ103V	CHIP RESISTOR	
R1022	ERDS2TJ151T	CARBON RESISTOR	
R1024	ERJ6GEYJ562V	CHIP RESISTOR	
R1025	ERDS2TJ151T	CARBON RESISTOR	
R1026	ERJ6GEYJ682V	CHIP RESISTOR	
R1027	ERDS2TJ332T	CARBON RESISTOR	
R1028	ERDS2TJ332T	CARBON RESISTOR	
R1150	ERDS2TJ105T	CARBON RESISTOR	
R1153	ERG2SJ331E	METAL OXIDE RESISTOR	
R1154	ERDS2TJ105T	CARBON RESISTOR	
R1155	ERDS2TJ104T	CARBON RESISTOR	
R1156	ERDS2TJ330T	CARBON RESISTOR	
R1157	EROS2TKG1801	METAL OXIDE RESISTOR	
R1158	ERDS2TJ331T	CARBON RESISTOR	
R1159	ERDS2TJ3R3T	CARBON RESISTOR	
R1160	ERX1SJR51E	METAL RESISTOR	
R1161	ERDS2TJ101T	CARBON RESISTOR	
R1162	ERDS2FJ102T	CARBON RESISTOR	
R1163	ERDS2FJ101T	CARBON RESISTOR	
R1200	ERJ6GEYG393V	CHIP RESISTOR	
R1202	ERJ6GEYG222V	CHIP RESISTOR	
R1203	ERJ6GEYG333V	CHIP RESISTOR	
R1204	ERJ6GEYJ123V	CHIP RESISTOR	
R1205	ERJ6GEYJ222V	CHIP RESISTOR	
R1206	ERJ6GEYJ271V	CHIP RESISTOR	
R1207	ERJ6GEYG333V	CHIP RESISTOR	
R1208	ERJ6GEYG822V	CHIP RESISTOR	
R1209	ERJ6GEYG563V	CHIP RESISTOR	
R1501	ERDS2TJ121T	CARBON RESISTOR	
R1502	ERDS2TJ181T	CARBON RESISTOR	
R1503	ERJ6GEYJ273V	CHIP RESISTOR	
R1504	ERJ6GEYJ273V	CHIP RESISTOR	
R1505	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R1506	ERJ6GEYJ103V	CHIP RESISTOR	
R2501	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R2502	ERJ6GEYJ222V	CHIP RESISTOR	
R2503	ERJ6GEYJ103V	CHIP RESISTOR	
R2504	ERJ6GEYJ103V	CHIP RESISTOR	
R2505	ERJ6GEYJ392V	CHIP RESISTOR	
R2506	ERJ6GEYJ105V	CHIP RESISTOR	
R2507	ERJ6GEYJ274V	CHIP RESISTOR	
R2508	ERJ6GEYG433V	CHIP RESISTOR	
R2509	ERDS2TJ331T	CARBON RESISTOR	
R2510	ERDS2TJ330T	CARBON RESISTOR	
R2511	ERDS2TJ330T	CARBON RESISTOR	
R2512	ERJ6GEYJ102V	CHIP RESISTOR	
R2515	ERDS2TJ330T	CARBON RESISTOR	
R2516	ERJ6GEYJ1R5V	CHIP RESISTOR	
R2517	ERJ6GEYJ1R2V	CHIP RESISTOR	
R3001	ERJ6GEYJ152V	CHIP RESISTOR	
R3002	ERJ6GEYJ622V	CHIP RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R3004	ERJ6GEYJ562V	CHIP RESISTOR	
R3005	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R3006	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R3008	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R3009	ERJ6GEYJ153V	CHIP RESISTOR	
R3010	ERJ6GEYJ103V	CHIP RESISTOR	
R3011	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R3012	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R3013	ERJ6GEYJ273V	CHIP RESISTOR	
R3014	ERJ6GEYJ471V	CHIP RESISTOR	
R3015	ERJ6GEYJ332V	CHIP RESISTOR	
R3017	ERJ6GEYJ102V	CHIP RESISTOR	
R3027	ERJ6GEYJ332V	CHIP RESISTOR	
R3028	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R3030	ERJ6GEYJ106V	CHIP RESISTOR	
R3032	ERJ6GEYJ221V	CHIP RESISTOR	
R3033	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R3035	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R3037	ERJ6GEYJ122V	CHIP RESISTOR	
R3038	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R3039	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R3040	ERJ6GEYJ472V	CHIP RESISTOR	
R3041	ERJ6GEYJ102V	CHIP RESISTOR	
R3042	ERJ6GEYJ222V	CHIP RESISTOR	
R3043	ERJ6GEYJ182V	CHIP RESISTOR	
R3044	ERJ6GEYJ102V	CHIP RESISTOR	
R3045	ERJ6GEYJ102V	CHIP RESISTOR	
R3046	ERJ6GEYJ471V	CHIP RESISTOR	
R3047	ERJ6RBD183V	CHIP RESISTOR	
R3048	ERJ6RBD273V	CHIP RESISTOR	
R4001	ERJ6GEYJ332V	CHIP RESISTOR	
R4002	ERJ6GEYJ104V	CHIP RESISTOR	
R4003	ERJ6GEYJ223V	CHIP RESISTOR	
R4004	ERJ6GEYJ221V	CHIP RESISTOR	
R4006	ERJ6GEYJ223V	CHIP RESISTOR	
R4007	ERJ6GEYJ103V	CHIP RESISTOR	
R4008	ERJ6GEYJ334V	CHIP RESISTOR	
R4009	ERJ6GEYJ223V	CHIP RESISTOR	
R4010	ERJ6GEYJ103V	CHIP RESISTOR	
R4011	ERJ6GEYJ183V	CHIP RESISTOR	
R4012	ERJ6GEYJ821V	CHIP RESISTOR	
R4013	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R4014	ERJ6GEYJ163V	CHIP RESISTOR	
R4015	ERJ6GEYJ472V	CHIP RESISTOR	
R4016	ERJ6GEYJ222V	CHIP RESISTOR	
R4017	ERJ6GEYJ332V	CHIP RESISTOR	
R4018	ERJ6GEYJ472V	CHIP RESISTOR	
R4019	ERJ6GEYJ682V	CHIP RESISTOR	
R4020	ERJ6GEYJ472V	CHIP RESISTOR	
R4501	ERJ6GEYJ563V	CHIP RESISTOR	
R4502	ERJ6GEYJ563V	CHIP RESISTOR	
R4503	ERJ6GEYJ303V	CHIP RESISTOR	
R4504	ERJ6GEYJ303V	CHIP RESISTOR	
R4505	ERJ6GEYJ472V	CHIP RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R4506	ERJ6GEYJ472V	CHIP RESISTOR	
R4507	ERJ6GEYJ153V	CHIP RESISTOR	
R4508	ERJ6GEYJ472V	CHIP RESISTOR	
R4509	ERJ6GEYJ472V	CHIP RESISTOR	
R4510	ERJ6GEYJ153V	CHIP RESISTOR	
R4511	ERJ6GEYJ472V	CHIP RESISTOR	
R4512	ERJ6GEYJ472V	CHIP RESISTOR	
R4513	ERJ6GEYJ563V	CHIP RESISTOR	
R4514	ERJ6GEYJ563V	CHIP RESISTOR	
R4515	ERJ6GEYJ563V	CHIP RESISTOR	
R4516	ERJ6GEYJ563V	CHIP RESISTOR	
R4517	ERJ6GEYJ511V	CHIP RESISTOR	
R4518	ERJ6GEYJ472V	CHIP RESISTOR	
R4519	ERJ6GEYJ821V	CHIP RESISTOR	
R4520	ERJ6GEYJ124V	CHIP RESISTOR	
R4521	ERJ6GEYJ472V	CHIP RESISTOR	
R4522	ERJ6GEYJ511V	CHIP RESISTOR	
R4523	ERJ6GEYJ102V	CHIP RESISTOR	
R4524	ERJ6GEYJ303V	CHIP RESISTOR	
R4525	ERJ6GEYJ102V	CHIP RESISTOR	
R4526	ERJ6GEYJ102V	CHIP RESISTOR	
R4527	ERJ6GEYJ223V	CHIP RESISTOR	
R4531	ERJ6GEYJ221V	CHIP RESISTOR	
R4533	ERJ6GEYJ221V	CHIP RESISTOR	
R4535	ERJ6GEYJ221V	CHIP RESISTOR	
R4538	ERJ6GEYJ221V	CHIP RESISTOR	
R4539	ERJ6GEYJ362V	CHIP RESISTOR	
R4540	ERJ6GEYJ223V	CHIP RESISTOR	
R4901	ERJ6GEYJ331V	CHIP RESISTOR	
R4902	ERJ6GEYJ121V	CHIP RESISTOR	
R4903	ERJ6GEYJ121V	CHIP RESISTOR	
R4905	ERJ6GEYJ750V	CHIP RESISTOR	
R4906	ERJ6GEYJ750V	CHIP RESISTOR	
R4907	ERJ6GEYJ750V	CHIP RESISTOR	
R4909	ERJ6GEYJ750V	CHIP RESISTOR	
R4910	ERJ6GEYJ750V	CHIP RESISTOR	
R4911	ERJ6GEYJ750V	CHIP RESISTOR	
R4912	ERJ6GEYJ103V	CHIP RESISTOR	
R4913	ERJ6GEYJ103V	CHIP RESISTOR	
R4914	ERJ6GEYJ223V	CHIP RESISTOR	
R4915	ERJ6GEYJ183V	CHIP RESISTOR	
R4916	ERDS2TJ471T	CARBON RESISTOR	
R4917	ERJ6GEYJ223V	CHIP RESISTOR	
R4918	ERJ6GEYJ153V	CHIP RESISTOR	
R4919	ERJ6GEYJ474V	CHIP RESISTOR	
R4920	ERJ6GEYJ472V	CHIP RESISTOR	
R4921	ERJ6GEYJ472V	CHIP RESISTOR	
R4922	ERJ6GEYJ472V	CHIP RESISTOR	
R4923	ERJ6GEYJ681V	CHIP RESISTOR	
R4924	ERJ6GEYJ681V	CHIP RESISTOR	
R4925	ERJ6GEYJ472V	CHIP RESISTOR	
R4926	ERJ6GEYJ183V	CHIP RESISTOR	
R4932	ERJ6GEYJ750V	CHIP RESISTOR	
R4933	ERJ6GEYJ750V	CHIP RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R4934	ERJ6GEYJ750V	CHIP RESISTOR	
R4935	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R4936	ERJ6GEYJ102V	CHIP RESISTOR	
R4937	ERJ6GEYJ102V	CHIP RESISTOR	
R6001	ERJ6GEYJ472V	CHIP RESISTOR	
R6002	ERJ6GEYJ102V	CHIP RESISTOR	
R6003	ERJ6GEYJ391V	CHIP RESISTOR	
R6004	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R6005	ERJ6GEYJ224V	CHIP RESISTOR	
R6007	ERJ6GEYJ473V	CHIP RESISTOR	
R6009	ERJ6GEYJ223V	CHIP RESISTOR	
R6011	ERJ6GEYJ221V	CHIP RESISTOR	
R6012	ERJ6GEYJ221V	CHIP RESISTOR	
R6013	ERJ6GEYJ221V	CHIP RESISTOR	
R6016	ERJ6GEYJ222V	CHIP RESISTOR	
R6017	ERJ6GEYJ102V	CHIP RESISTOR	
R6019	ERJ6GEYJ103V	CHIP RESISTOR	
R6020	ERJ6GEYJ393V	CHIP RESISTOR	
R6021	ERJ6GEYJ273V	CHIP RESISTOR	
R6022	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R6023	ERJ6GEYJ273V	CHIP RESISTOR	
R6025	ERJ6GEYJ433V	CHIP RESISTOR	
R6026	ERJ6GEYJ393V	CHIP RESISTOR	
R6031	ERJ6GEYJ682V	CHIP RESISTOR	
R6035	ERJ6GEYJ681V	CHIP RESISTOR	
R6036	ERJ6GEYJ681V	CHIP RESISTOR	
R6039	ERJ6GEYJ102V	CHIP RESISTOR	
R6040	ERJ6GEYJ102V	CHIP RESISTOR	
R6041	ERJ6GEYJ102V	CHIP RESISTOR	
R6045	ERJ6GEYJ104V	CHIP RESISTOR	
R6046	ERJ6GEYJ472V	CHIP RESISTOR	
R6047	ERJ6GEYJ472V	CHIP RESISTOR	
R6048	ERJ6GEYJ472V	CHIP RESISTOR	
R6049	ERJ6GEYJ221V	CHIP RESISTOR	
R6051	ERJ6GEYJ564V	CHIP RESISTOR	
R6052	ERJ6GEYJ221V	CHIP RESISTOR	
R6053	ERJ6GEYJ682V	CHIP RESISTOR	
R6054	ERJ6GEYJ125V	CHIP RESISTOR	
R6055	ERJ6GEYJ682V	CHIP RESISTOR	
R6056	ERJ6GEYJ125V	CHIP RESISTOR	
R6057	ERJ6GEYJ104V	CHIP RESISTOR	
R6058	ERJ6GEYJ222V	CHIP RESISTOR	
R6059	ERJ6GEYJ222V	CHIP RESISTOR	
R6060	ERJ6GEYJ102V	CHIP RESISTOR	
R6061	ERJ6GEYJ102V	CHIP RESISTOR	
R6071	ERJ6GEYJ183V	CHIP RESISTOR	
R6072	ERJ6GEYJ223V	CHIP RESISTOR	
R6073	ERJ6GEYJ474V	CHIP RESISTOR	
R6074	ERDS2TJ471T	CARBON RESISTOR	
R6075	ERJ6GEYJ223V	CHIP RESISTOR	
R6076	ERJ6GEYJ153V	CHIP RESISTOR	
R6077	ERJ6GEYJ105V	CHIP RESISTOR	
R6078	ERJ6GEYJ471V	CHIP RESISTOR	
R6079	ERJ6GEYJ821V	CHIP RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R6083	ERJ6GEYJ222V	CHIP RESISTOR	
R7501	ERJ6GEYJ822V	CHIP RESISTOR	
R7502	ERJ6GEYJ562V	CHIP RESISTOR	
R7503	ERJ6GEYJ432V	CHIP RESISTOR	
R7504	ERJ6GEYJ822V	CHIP RESISTOR	
R7505	ERJ6GEYJ562V	CHIP RESISTOR	
R7506	ERJ6GEYJ432V	CHIP RESISTOR	
R7507	ERDS2TJ390T	CARBON RESISTOR	
R7509	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R7510	ERDS2TJ821T	CARBON RESISTOR	
R7511	ERDS2TJ821T	CARBON RESISTOR	
R7512	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R7513	ERJ6GEYJ303V	CHIP RESISTOR	
R7514	ERJ6GEYJ303V	CHIP RESISTOR	
R7515	ERJ6GEYJ303V	CHIP RESISTOR	
R7516	ERJ6GEYJ303V	CHIP RESISTOR	
R7517	ERJ6GEYJ103V	CHIP RESISTOR	
R7518	ERJ6GEYJ103V	CHIP RESISTOR	
R7519	ERJ6GEYJ432V	CHIP RESISTOR	
R7520	ERJ6GEYJ123V	CHIP RESISTOR	
R7521	ERJ6GEYJ223V	CHIP RESISTOR	
R7522	ERJ6GEYJ822V	CHIP RESISTOR	
R7534	ERJ6GEYJ181V	CHIP RESISTOR	
R7535	ERJ6GEYJ103V	CHIP RESISTOR	
R7536	ERJ6GEYJ562V	CHIP RESISTOR	
R7537	ERJ6GEYJ123V	CHIP RESISTOR	
R7538	ERJ6GEYJ123V	CHIP RESISTOR	
R7607	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R7608	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R7611	ERDS2TJ331T	CARBON RESISTOR	
R7612	ERDS2TJ331T	CARBON RESISTOR	
R7613	ERJ6GEYJ151V	CHIP RESISTOR	
R7614	ERJ6GEYJ151V	CHIP RESISTOR	
R7615	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R7618	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R7619	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R7620	ERJ6GEYJ101Z	CHIP RESISTOR	ERJ6GEYJ101V
R7623	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R7626	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
R7628	ERJ6GEYJ103V	CHIP RESISTOR	
R7630	ERJ6GEYJ221V	CHIP RESISTOR	
R7631	ERJ6GEYJ221V	CHIP RESISTOR	
R7632	ERJ6GEYJ221V	CHIP RESISTOR	
R7637	ERJ6GEYJ221V	CHIP RESISTOR	
S1501	EVQWJCA01	MODE SELECT SWITCH	
S1502	K0L1BA000026	SWITCH	VST0325
S7501	EVQ11L07B	SWITCH	
S7502	EVQ11L07B	SWITCH	
S7504	EVQ11L07B	SWITCH	
S7505	EVQ11L07B	SWITCH	
S7507	K0C111A00006	SAFETY TAB SWITCH	
S7511	EVQ11L07B	SWITCH	
S7512	EVQ11404M	SWITCH	

Ref. No.	Part No.	Part Name & Description	Remarks
S7513	EVQ11L07B	SWITCH	
S7514	EVQ11404M	SWITCH	
S7515	EVQ11L07B	SWITCH	
S7517	EVQ11L07B	SWITCH	
T1150	ETS29AZ286AC	TRANSFORMER	
T4001	EQQ7QF024P	HIGH FREQUENCY COIL	EQQ7QF024Q
TU7601	ENV57G04H6	TUNER	
VR0701	EVNCYAA03B14	VARIABLE RESISTOR	
W1	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W2	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W3	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
W4	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
W5	ERJ8GEY0R00V	CHIP RESISTOR	
W6	ERJ8GEY0R00V	CHIP RESISTOR	
W7	ERJ8GEY0R00V	CHIP RESISTOR	
W8	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W9	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W10	ERJ8GEY0R00V	CHIP RESISTOR	
W11	ERJ8GEY0R00V	CHIP RESISTOR	
W12	ERJ8GEY0R00V	CHIP RESISTOR	
W13	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W14	ERJ8GEY0R00V	CHIP RESISTOR	
W15	ERJ8GEY0R00V	CHIP RESISTOR	
W16	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W17	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W18	ERJ8GEY0R00V	CHIP RESISTOR	
W19	ERJ8GEY0R00V	CHIP RESISTOR	
W701	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W702	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W703	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W704	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W705	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W706	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W707	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W708	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W709	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W710	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W711	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W712	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W713	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W714	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W715	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W717	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W718	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W719	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W720	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W721	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W722	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W723	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V

Ref. No.	Part No.	Part Name & Description	Remarks
W724	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W725	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W726	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W727	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W728	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W729	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W730	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W731	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W732	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W733	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W734	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W735	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
W736	ERJ6GEY0R00Z	CHIP RESISTOR	ERJ6GEY0R00V
X0704	J0B4045A0002	CRISTAL OSCILLATOR	
X0706	EFCKK9453M	CAPACITOR	VLF1372
X0707	EFCKG3958M	CAPACITOR	VLF1371
X3001	H0D443400039	CRISTAL OSZILLATOR	
X6001	H0A120500002	CRYSTAL OCSILLATOR	
X6002	VSX1022	QUARZ	
X7601	H0D245500011	QUARZ	VSX0953-T
		MISCELLANEOUS	
	EYF52BC	FUSE HOLDER	
	EYF52BC	FUSE HOLDER	
	VSC5227	SHIELD CASE	
	VSC4998	SHIELD CASE	
	VMP4471	ANGLE	
■	VEP03G25A	S-VHS PACK C.B.A.	(RTL)
C3301	F1H1C104A008	CHIP CAPACITOR	
C3302	F1H1C104A008	CHIP CAPACITOR	
C3303	F1H1C104A008	CHIP CAPACITOR	
C3305	F1H1C104A008	CHIP CAPACITOR	
C3306	F1H1C104A008	CHIP CAPACITOR	
C3307	F1H1C104A008	CHIP CAPACITOR	
C3308	F1H1H152A219	CHIP CAPACITOR	
C3309	F1H1C104A008	CHIP CAPACITOR	
C3310	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3311	F1H1C104A008	CHIP CAPACITOR	
C3312	F1H1H103A748	CHIP CAPACITOR	
C3313	F1H1H103A748	CHIP CAPACITOR	
C3314	F1H1H103A748	CHIP CAPACITOR	
C3315	F1H1H103A748	CHIP CAPACITOR	
C3316	F1H1H103A748	CHIP CAPACITOR	
C3317	F1H1H103A748	CHIP CAPACITOR	
C3318	F1H1H103A748	CHIP CAPACITOR	
C3319	F1H1C104A008	CHIP CAPACITOR	
C3320	F1H1C104A008	CHIP CAPACITOR	
C3321	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3322	F1H1C104A008	CHIP CAPACITOR	
C3323	ECEA0JKA470B	ALU ELEC CAPACITOR	

CODE	DESCRIPTION	NEW LINE OR ACTION	
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Ref. No.	Part No.	Part Name & Description	Remarks
C3324	ECJ1VB0J474K	CHIP CAPACITOR	
C3325	ECJ1VB0J474K	CHIP CAPACITOR	
C3326	F1H1H103A748	CHIP CAPACITOR	
C3327	F1H1H103A748	CHIP CAPACITOR	
C3328	F1H1C104A008	CHIP CAPACITOR	
C3329	F1H1C104A008	CHIP CAPACITOR	
C3330	ECJ1VB1H822K	CHIP CAPACITOR	ECUV1H822KBV
C3331	F1H1C104A008	CHIP CAPACITOR	
C3332	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3333	F1H1C104A071	CHIP CAPACITOR	
C3334	F1H1H103A220	CHIP CAPACITOR	
C3335	F1H1H103A220	CHIP CAPACITOR	
C3336	F1H1H103A220	CHIP CAPACITOR	
C3338	F1H1H103A220	CHIP CAPACITOR	
C3339	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3340	F1H1C104A008	CHIP CAPACITOR	
C3341	F1H1H103A220	CHIP CAPACITOR	
C3342	ECEA1CKA100B	ALU ELEC CAPACITOR	
C3343	F1H1H103A220	CHIP CAPACITOR	
C3344	ECJ1VB0J474K	CHIP CAPACITOR	
C3345	ECEA1HKA4R7B	ALU ELEC CAPACITOR	
C3347	ECJ2YB0J225K	CHIP CAPACITOR	
C3350	ECEA1CKA100B	ALU ELEC CAPACITOR	
C3351	F1H1H103A220	CHIP CAPACITOR	
C3353	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3355	ECJ2YB0J225K	CHIP CAPACITOR	
C3360	ECEA0JKA470B	ALU ELEC CAPACITOR	
C3362	F1H1C104A008	CHIP CAPACITOR	
C3366	ECJ2YB0J225K	CHIP CAPACITOR	
C3371	F1H1C104A008	CHIP CAPACITOR	
C3372	ECJ2YB0J225K	CHIP CAPACITOR	
C3374	F1H1H271A832	CHIP CAPACITOR	
C3376	F1H1H271A832	CHIP CAPACITOR	
C3379	ECJ1VC1H390J	CHIP CAPACITOR	
C3380	ECJ1VC1H050C	CHIP CAPACITOR	
C3383	ECJ1VB0J474K	CHIP CAPACITOR	
C3384	ECJ1VC1H151J	CHIP CAPACITOR	ECUV1H151JCV
C3385	ECJ1VC1H220J	CHIP CAPACITOR	ECUV1H220JCV
C3386	ECJ1VC1H220J	CHIP CAPACITOR	ECUV1H220JCV
C3387	F1H1H120A230	CHIP CAPACITOR	
C3388	F1H0J105A002	CHIP CAPACITOR	
C3389	F1H0J105A002	CHIP CAPACITOR	
C3390	F1H1H121A832	CHIP CAPACITOR	
C3391	F1H1H221A832	CHIP CAPACITOR	
C3393	F1H1H271A832	CHIP CAPACITOR	
IC3301	C1AB00001631	INTEGRATED CIRCUIT	
IC3302	C0EBE0000205	INTEGRATED CIRCUIT	
IC3303	C0DBC000001	INTEGRATED CIRCUIT	
IC3304	C1AB00001486	INTEGRATED CIRCUIT	
IC3305	C1AB00001760	INTEGRATED CIRCUIT	
K3314	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
K3315	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V

Ref. No.	Part No.	Part Name & Description	Remarks
K3320	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
K3327	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
K3329	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
L3301	G0C220JA0019	CHOKE COIL AXIAL	VLQ0599J220T
L3302	G0C220JA0019	CHOKE COIL AXIAL	VLQ0599J220T
L3309	G1C101J00006	FIXED INDUCTOR	
L3312	G1C330J00004	FIXED INDUCTOR	VLQ0163J330
LB3301	J0JCC0000077	BEAD CORE	
LB3303	J0JCC0000077	BEAD CORE	
LB3304	J0JCC0000077	BEAD CORE	
LB3305	J0JCC0000077	BEAD CORE	
LB3306	J0JCC0000077	BEAD CORE	
LB3307	J0JCC0000077	BEAD CORE	
LB3308	J0JCC0000077	BEAD CORE	
LB3309	J0JCC0000077	BEAD CORE	
LB3310	J0JCC0000077	BEAD CORE	
LB3311	J0JCC0000077	BEAD CORE	
PS3301	K1KB13B00014	CONNECTOR	
PS3302	K1KB18B00016	CONNECTOR	
Q3307	2SD1819ARL	TRANSISTOR	
Q3311	2SD1819ARL	TRANSISTOR	
Q3312	2SB1218A0L	SS-TRANSISTOR	2SB1218A-TX
Q3315	2SB1218A0L	SS-TRANSISTOR	2SB1218A-TX
Q3316	2SD1819ARL	TRANSISTOR	
Q3317	2SB1218A0L	SS-TRANSISTOR	2SB1218A-TX
Q3318	2SB1218A0L	SS-TRANSISTOR	2SB1218A-TX
Q3319	2SD1819ARL	TRANSISTOR	
Q3320	2SB1218A0L	SS-TRANSISTOR	2SB1218A-TX
Q3321	2SB1218A0L	SS-TRANSISTOR	2SB1218A-TX
Q3322	2SB1218A0L	SS-TRANSISTOR	2SB1218A-TX
R3301	ERJ3GEYJ223V	CHIP RESISTOR	ERJ3GSJ223V
R3302	ERJ3GEYJ333V	CHIP RESISTOR	
R3305	ERJ3GEYJ223V	CHIP RESISTOR	ERJ3GSJ223V
R3306	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
R3307	ERJ3GEYJ103V	CHIP RESISTOR	ERJ3GSJ103V
R3308	ERJ3GEYJ103V	CHIP RESISTOR	ERJ3GSJ103V
R3309	ERJ3GEYJ561V	CHIP RESISTOR	ERJ3GSJ561V
R3310	ERJ3GEYG121V	CHIP RESISTOR	
R3313	ERJ3GEYJ101V	CHIP RESISTOR	ERJ3GSJ101V
R3314	ERJ3GEYJ101V	CHIP RESISTOR	ERJ3GSJ101V
R3315	ERJ3GEYJ390V	CHIP RESISTOR	
R3316	ERJ3GEYJ102V	CHIP RESISTOR	ERJ3GSJ102V
R3318	ERJ3GEYG102V	CHIP RESISTOR	
R3323	ERJ3GEYG152V	CHIP RESISTOR	
R3324	ERJ3GEY0R00V	CHIP RESISTOR	ERJ3GS0R00V
R3327	ERJ3GEYJ471V	CHIP RESISTOR	ERJ3GSJ471V
R3328	ERJ3GEYJ112V	CHIP RESISTOR	
R3329	ERJ3GEYJ221V	CHIP RESISTOR	ERJ3GSJ221V
R3330	ERJ3GEYJ122V	CHIP RESISTOR	ERJ3GSJ122V

Ref. No.	Part No.	Part Name & Description	Remarks
R3331	ERJ3GEYG242V	CHIP RESISTOR	
R3332	ERJ3GEYG102V	CHIP RESISTOR	
R3334	ERJ3GEYG561V	CHIP RESISTOR	
R3335	ERJ3GEYG102V	CHIP RESISTOR	
R3339	ERJ3GEYG392V	CHIP RESISTOR	
R3340	ERJ3GEYG102V	CHIP RESISTOR	
R3349	ERJ3GEYG392V	CHIP RESISTOR	
R3364	ERJ3GEYJ561V	CHIP RESISTOR	ERJ3GSJ561V
R3365	ERJ3GEYG102V	CHIP RESISTOR	
R3366	ERJ3GEYJ152V	CHIP RESISTOR	ERJ3GSJ152V
R3367	ERJ3GEYG112V	CHIP RESISTOR	
R3368	ERJ3GEYG111V	CHIP RESISTOR	
R3369	ERJ3GEYJ331V	CHIP RESISTOR	
R3370	ERJ3GEYG121V	CHIP RESISTOR	
R3371	ERJ3GEYJ561V	CHIP RESISTOR	ERJ3GSJ561V
R3372	ERJ3GEYJ105V	CHIP RESISTOR	ERJ3GSJ105V
R3373	ERJ3GEYJ105V	CHIP RESISTOR	ERJ3GSJ105V
R3374	ERJ3GEYG102V	CHIP RESISTOR	
R3375	ERJ3GEYG112V	CHIP RESISTOR	
R3376	ERJ3GEYJ152V	CHIP RESISTOR	ERJ3GSJ152V
■	VEP04832A	FRONT C.B.A.	(RTL)
C4803	ECKR1H102KB5	CERAMIC CAPACITOR	
C4804	ECKR1H102KB5	CERAMIC CAPACITOR	
C4805	ECQV1H104JL3	PLAST FILM CAPACITOR	
C4806	ECQV1H104JL3	PLAST FILM CAPACITOR	
IC4801	PNA4618M10VT	INTEGRATED CIRCUIT	
JK4801	K2HA307A0003	CONNECTOR	
JK4802	K1CB104A0009	AV	VJJ0574
L4801	-----	JUMPER WIRE	
L4802	-----	JUMPER WIRE	
PS4801	K1KB15B00013	CONNECTOR	VJS3042F015W
R4801	ERDS2TJ750T	CARBON RESISTOR	
R4802	ERDS2TJ471T	CARBON RESISTOR	
R4803	ERDS2TJ471T	CARBON RESISTOR	
R4804	ERDS2TJ750T	CARBON RESISTOR	
R4805	ERDS2TJ750T	CARBON RESISTOR	
R4806	ERDS2TJ562T	CARBON RESISTOR	
R4807	ERDS2TJ562T	CARBON RESISTOR	
R4808	ERDS2TJ432T	CARBON RESISTOR	
R4809	ERDS2TJ822T	CARBON RESISTOR	
S4801	EVQ11G09K	SWITCH	
S4802	EVQ11G09K	SWITCH	
S4803	EVQ11G09K	SWITCH	
S4804	EVQ11G09K	SWITCH	
S4805	EVQ11G09K	SWITCH	

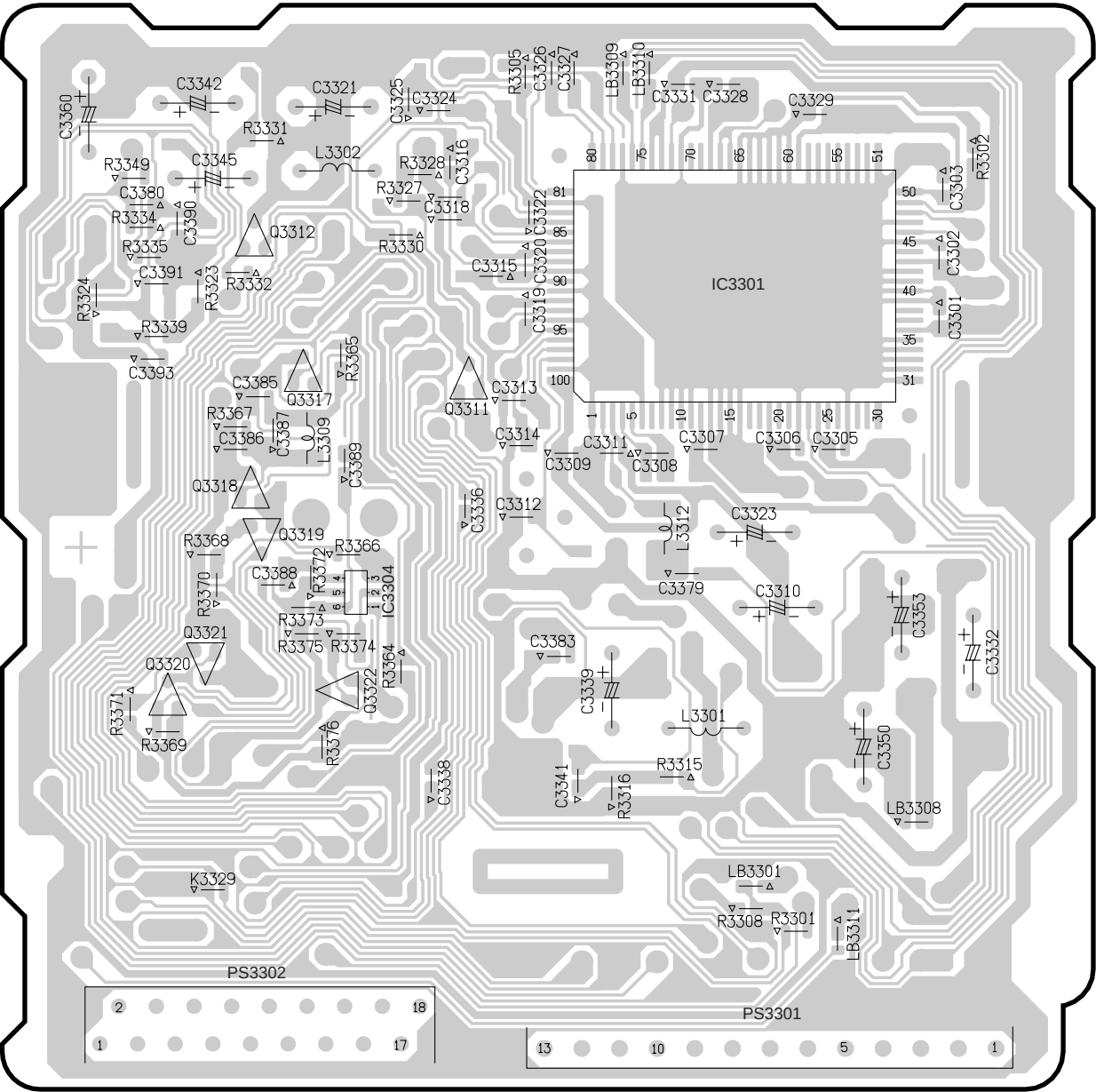
Ref. No.	Part No.	Part Name & Description	Remarks
S4806	EVQ11G09K	SWITCH	
		MISCELLANEOUS	
	VGQ6104	FRONT PCB HOLDER	
■	VEP08328A	SECAM C.B.A.	(RTL)
C8801	F1H1H103A220	CHIP CAPACITOR	
C8802	ECEA1HKA010B	ALU ELEC CAPACITOR	
C8803	F1H1H103A748	CHIP CAPACITOR	
C8804	ECEA1HKA2R2B	ALU ELEC CAPACITOR	
C8805	F1H1H222A219	CHIP CAPACITOR	
C8806	F1H1H222A219	CHIP CAPACITOR	
C8807	ECEA1HKA010B	ALU ELEC CAPACITOR	
C8808	ECEA1HKAR47B	ALU ELEC CAPACITOR	
C8809	F1H1H103A220	CHIP CAPACITOR	
C8810	F1H1C104A071	CHIP CAPACITOR	
C8811	ECEA0JKA101B	ALU ELEC CAPACITOR	
C8812	F1H1C104A071	CHIP CAPACITOR	
C8813	F1H1C104A071	CHIP CAPACITOR	
C8814	F1H1C104A071	CHIP CAPACITOR	
C8815	ECEA1HKAR47B	ALU ELEC CAPACITOR	
C8816	F1H1C104A008	CHIP CAPACITOR	
C8817	F1H1C104A071	CHIP CAPACITOR	
IC8801	C1AB00001759	INTEGRATED CIRCUIT	
L8801	G0C100JA0019	CHOKE COIL AXIAL	ELEXT100JBV
L8801	G0C100JA0019	CHOKE COIL AXIAL	VLQ0599J100T
P8801	K1MN15A00033	CONNECTOR	VJS3537A015G
Q8801	2SD0601ARN	TRANSISTOR	2SD601A-RTX
QR8801	UNR221100L	TRANSISTOR	UN2211-TX
QR8802	B1GDCFJ00002	TRANSISTOR	DTA114EK-T146
QR8803	B1GDCFJ00002	TRANSISTOR	DTA114EK-T146
QR8804	UNR221100L	TRANSISTOR	UN2211-TX
R8801	ERJ6GEYJ103V	CHIP RESISTOR	
R8802	ERJ6GEYJ102V	CHIP RESISTOR	
R8803	ERJ6GEYJ124V	CHIP RESISTOR	
R8804	ERJ6GEYJ223V	CHIP RESISTOR	
R8805	ERJ6GEYJ562V	CHIP RESISTOR	
■	-----	CYLINDER STATOR C.B.A.	
		MISCELLANEOUS	
	VJS3537F009G	CONNECTOR (FEMALE) 9P	K1MN09B00039
	HW-300A-DF	HALL IC	B4AAB0000007

12. SCHEMATIC DIAGRAM FOR PRINTING WITH A4 SIZE

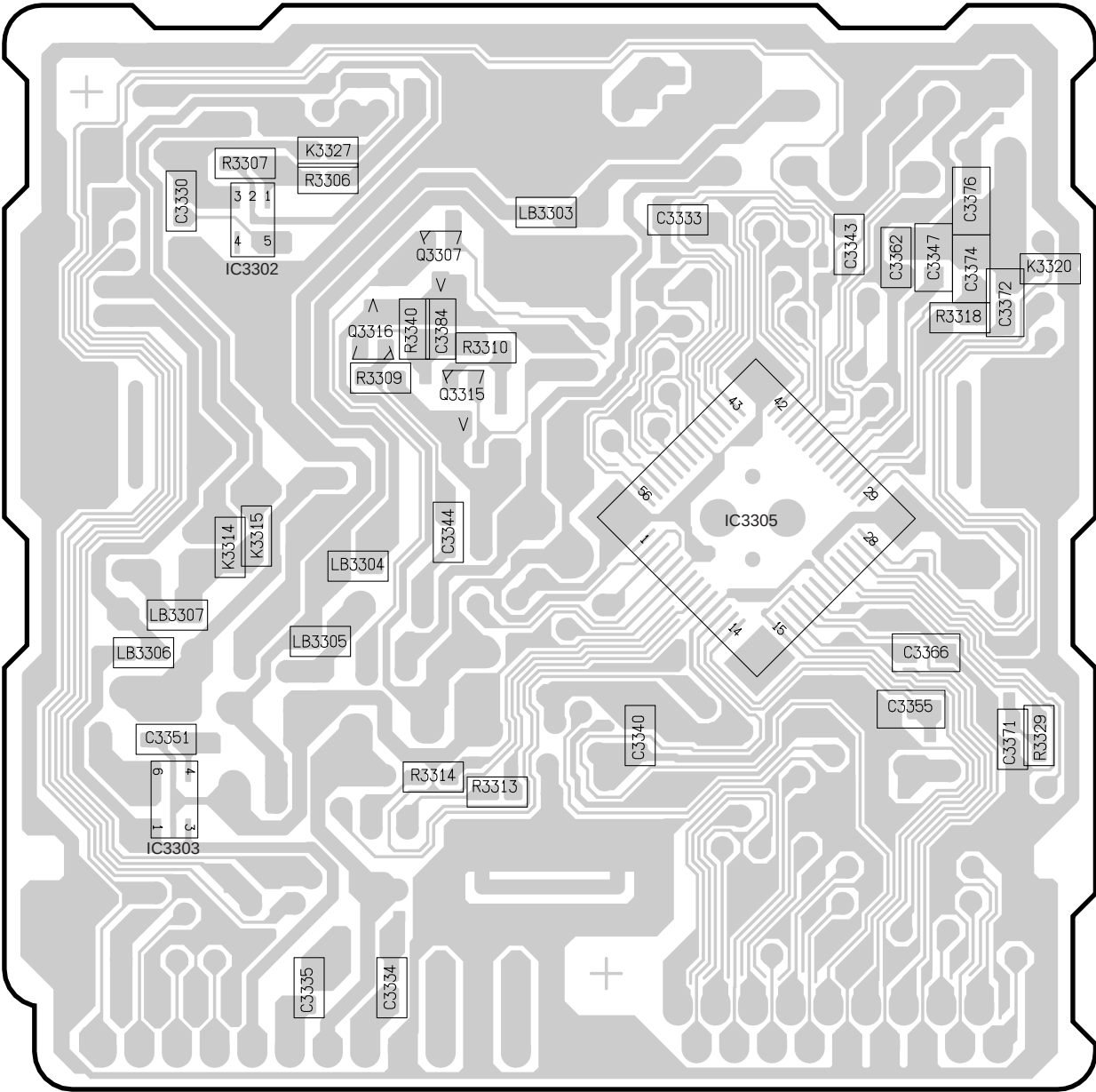
S-VHS PACK C.B.A.			
Transistor			Integrated Circuit
Q3307	D-7	IC3301	D-4
Q3311	D-3	IC3302	D-6
Q3312	D-2	IC3303	B-6
Q3315	D-7	IC3304	C-2
Q3316	D-7	IC3305	C-8
Q3317	D-2	Connector	
Q3318	C-2	PS3301	A-4
Q3319	C-2	PS3302	A-2
Q3320	C-2		
Q3321	C-2		
Q3322	B-2		

ADDRESS INFORMATION

(VEP03G25A)



(COMPONENT SIDE)



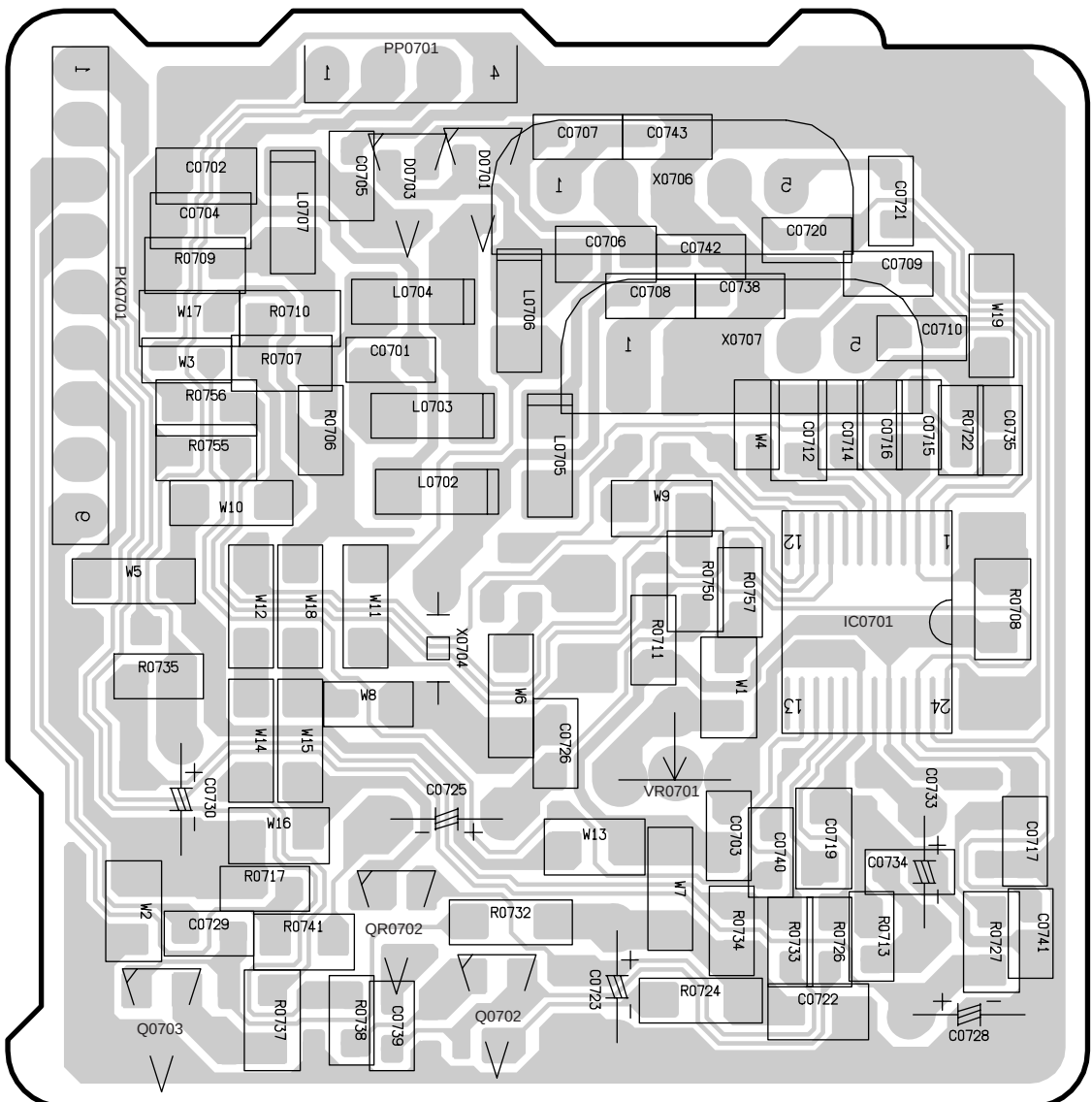
(FOIL SIDE)

TV DEMODULATOR PACK C.B.A.

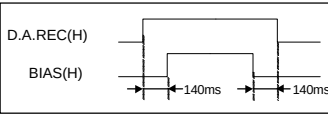
Transistor	
Q0702	A-2
Q0703	A-1
Transistor & Resistor	
QR0702	A-2
Integrated Circuit	
IC0701	B-4
Adjustment	
VR0701	B-3
Connector	
PK0701	D-1
PP0701	D-2

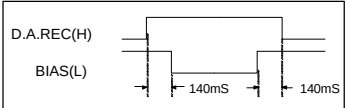
ADDRESS INFORMATION

(VEP07A47A)



NV-SV120EF
TV DEMODULATOR PACK C.B.A.

Pin No.	Signal Name	I/O	Describe	P-OFF	P-SAVE	P-FAIL	Reset															
1	A.DEF(H)	O	Output signal for audio defea and decoder IC reset.	Low	Low	Low	Low															
2	CKILLER DET(L)	I	Detection of COLOR KILLER active.	In	In	In	In															
3	AFC S	I	S curve input from tuner.	In	In	In	In															
4	SLP(H)	O	Output signal depends on tape speed. (During N10H or P9H: High) (Except N10H and P9H: Low)	Low	Low	Low	Low															
5	CPB	I	PB input from AV2. *3.21v ~ :High *1.23v ~ 3.21v :Middle * ~ 1.23v :Low	In	In	In	In															
6	N/S/T2	I	Normal/Service/Test2/Test3 select. * 4.0v ~ :NORMAL mode * 2.5v ~ 4.0v :SERVICE mode * 1.0v ~ 2.5v :TEST2 mode * 0v ~ 1.0v :No define (spare)	In	In	In	In															
7	S-PHOTO	I	Photo sensor input from supply side. (more than 2.6V: black / less than 2.4V: white)	In	In	In	In															
8	T-PHOTO	I	Photo sensor input from take up side. (more than 2.6V: black / less than 2.4V: white)	In	In	In	In															
9	TRACKING ENVE	I	Video envelope input for auto tracking and CVC.	In	In	In	In															
10	AV1_8IN	I	PB input from IC3001. * 3.21v ~ : High * 1.23v ~ 3.21v: Middle * ~ 1.23v: Low	In	In	In	In															
11	CURRENT LIMIT	O	Current limit for capstan driver.	Low	Low	Low	Low															
12	F ADJUST	O	Analogue voltage output for HEAD frequency response adjustment.	Low	Low	Low	Low															
13	ART.V/H/N	O	Artificial V synchronization signal.	Low	Low	Low	Low															
14	IR	I	Interrupt input from IR sensor.	In	In	In	In															
15	AVPB-H(L)	O	Output signal for AV2-PB "H". (2 Scart Model) Output signal for AV1-PB "H". (1 Scart Model) * H/M/L is output to 21pin-(8) when both terminals are set as follows.	High	High	Low	High															
16	AVPB-M(H)	O	<table border="1"><tr><td>Pin 8</td><td>Setting</td><td></td></tr><tr><td></td><td>AVPB-H(L)</td><td>AVPBM-(H)</td></tr><tr><td>High</td><td>L</td><td>Hi-z</td></tr><tr><td>Middle</td><td>H</td><td>Hi-z</td></tr><tr><td>Low</td><td>H</td><td>L</td></tr></table>	Pin 8	Setting			AVPB-H(L)	AVPBM-(H)	High	L	Hi-z	Middle	H	Hi-z	Low	H	L	Low	Low	Low	Low
Pin 8	Setting																					
	AVPB-H(L)	AVPBM-(H)																				
High	L	Hi-z																				
Middle	H	Hi-z																				
Low	H	L																				
17	EEP_WR	O	Write enable for EEPROM. *H:READ only L:Write	High	High	Low	High															
18	VIDEO.H.SW	O	Output signal for video HEAD switch.	Low	Low	Low	Low															
19	A.H.SW	O	Output signal for FM audio HEAD switch.	Low	Low	Low	Low															
20	PROG ON(H)	O	I/O control to switch IIC bus for LW-programmer. H:IIC bus is connected to AV2. L:IIC bus is not connected to AV2.	Low	Low	Low	Low															
21	B/W(H)	O	Output signal for B/W mode.	Low	Low	Low	Low															
22	NC	O	Non connect. (Low Fix)	Low	Low	Low	Low															
23	ABS_NORM(H)	I	Input signal for FM audio enverope level detection. (Also serves that the Automatic Adjustment is completed)	In	In	In	In															
24	V EE(L)	O	Output signal for switch between EE and VV.	Low	Low	Low	Low															
25	D.FM.REC(H)	O	Control signal for FM audio recording current)	Low	Low	Low	Low															
26	D.A.REC(H)	O	Control signal for normal audio recording current.	Low	Low	Low	Low															
27	BIAS(H)	O	Control signal for FM audio recording current. 	Low	Low	Low	Low															
28	FM.MUTE(H)	O	Output signal for audio mute control.	High	High	Low	High															
29	PAL-I/BG/DK(SYS4)	O	Output terminal for broad cast system to control the video circuit.	Not fix	Low	Low	Low															
30	S-VHS DET(H)	I	Detection between SVHS and VHS.	In	In	In	In															

Pin No.	Signal Name	I/O	Describe	P-OFF	P-SAVE	P-FAIL	Reset
31	POS.SW3	I	Input terminal for mechanism position. 	In	In	In	In
32	POS.SW2	I		In	In	In	In
33	POS.SW1	I		In	In	In	In
34	RESET(L)	I	MICOM reset input terminal.	In	In	In	In
35	32KHz IN	I	Sub oscillator input.	---	---	---	---
36	32KHz OUT	O	Sub oscillator output.	---	---	---	---
37	+5V(D)	-	Power.	---	---	---	---
38	12MHz.IN	I	Main oscillator input.	---	---	---	---
39	12MHz.OUT	O	Main oscillator output.	---	---	---	---
40	GND(D)	-		---	---	---	---
41	POWER OFF(L)	O	Control signal for power circuit. *Low is existed when turning off the power supply for concerned circuit. *High is existed while power is supplied to mechanism and/or concerned circuit, although it seems to be power off.	Low	Low	Low	Low
42	FIP ON(L)	O	Control signal for FIP on/off. P-OFF in power save mode: "H" is output. Other than above: "L" is output. (Output switching timing of FIP"L" is same with the switching timing of POWER OFF "L".)	Low	High	Low	Low
43	12M.START(H)	I	Starting clock select terminal at releasing RESET.	---	---	---	---
44	LC.OSC IN	I	OSC terminal for OSD dot clock.	---	---	---	---
45	LC.OSC OUT	O	OSC terminal for OSD dot clock.	---	---	---	---
46	GND	I	GND	---	---	---	---
47	4FC.LPF	I	NC	---	---	---	---
48	OSD.FSC IN	I	NC	---	---	---	---
49	GND(OSD)	-	GND	---	---	---	---
50	CVIN	I	Composite video signal input terminal.	---	---	---	---
51	LECHA	I	Composite video signal white level input terminal.	---	---	---	---
52	CVOUT	O	CG video output teminal.	---	---	---	---
53	5V(OSD)	-		---	---	---	---
54	HLF	I	LPF connection terminal for SLICER (Used for OSD dot clock.)	---	---	---	---
55	AMUTE(H)	O	Audio mute signal only for RF convertor.	High	High	Low	High
56	CVIN(EDS)	I	Composite video signal input terminal for SLICER.	In	In	In	In
57	GND	I		---	---	---	---
58	SECAM/PAL(SYS2)	O	Output terminal for the unit recognition result of broad cast system.	Low	Low	Low	Low
59	SECAM.V.IN	I	Chroma input terminal for SECAM SUPERIMPOSE.	---	---	---	---
60	OSD PULSE	O	Abstraction signal for BOX from the video signal at SUPERIMPOSE.	Low	Low	Low	Low
61	SLEEP(L)	O	Power circuit control signal for super power save mode. *P-OFF in power save mode: "L" is output. Other than above: "H" is output. *Output switching timing of FIP "L" is same with the switching timing of POWER OFF "L".)	High	Low	Low	High
62	UNLOADING(H)	O	Control signal for Loading motor forward. *High is existed when the loading motor rotates reverse direction and/or breaking.	Low	Low	Low	Low
63	LOADING(H)	O	Control signal for Loading motor reverse. *High is existed when the loading motor rotates forward direction and/or breaking.	Low	Low	Low	Low
64	FLD CS	O	FLD chip select terminal.	Not fix	Not fix	Low	Low
65	MESECAM DET(H)	I	Detection between MESECAM and NORMAL in playback mode.	In	In	In	In
66	LP(H)	O	Output signal depends on tape speed in both EE and VV modes. * During N4H,N6H,P6H or P9H: High. * Other than above speed: Low.	Low	Low	Low	Low
67	NC	O	Non connect. * Low fixed.	Low	Low	Low	Low
68	FLD DATA OUT	O	Serial data output signal for FIP driver.	Not fix	Not fix	Low	Low
69	FLD DATA IN	I	Serial data input signal for FIP driver.	Not fix	Not fix	In	In
70	FLD CLK	O	Serial clock signal for FIP driver.	Not fix	Not fix	Low	Low
71	IIC CLK	O	IIC clock for all IIC devices	Not fix	Not fix	Low	Low
72	IIC DATA	O	IIC data for all IIC devices	Not fix	Not fix	Low	Low
73	125Hz	O	125Hz output for adjustment of clock accuracy . (Output in only TEST MODE 2.)	Low	Low	Low	Low
74	CAP.R/F	O	Control signal for capstan motor diriction.	Low	Low	Low	Low

Pin No.	Signal Name	I/O	Describe	P-OFF	P-SAVE	P-FAIL	Reset
75	HALF_WAVE(H)	O	Control signal for switching capstan motor mode FAST and SLOW.	In	In	In	In
76	CAP.ET	O	Torque control signal for capstan motor.	0V	0V	Low	0V
77	CYL.ET	O	Torque control signal for cylinder motor.	4.213V	4.213V	Low	4.213V
78	P FAIL	I	Interrupt input signal for power fail detection.	In	In	In	In
79	S.REEL.PULSE	I	Input signal from supply reel sensor.	In	In	In	In
80	T.REEL.PULSE	I	Input signal from take up reel sensor.	In	In	In	In
81	S TAB(L)	I	Input signal from Safety-tab SW. * Safety-tab exists: Low, * Safety-tab does not exist: High)	In	In	In	In
82	POWER_KEY	I	Input terminal for signal from power button on the Front Panel. * Switch between ON and off, when down edge is detected.	In	In	In	In
83	CNR OFF(H)	O	CNR control for IC3001.	Low	Low	Low	Low
84	SECAM_ID(L)	I	Detection of SECAM mode.	In	In	In	In
85	DAVN	I	DAVN signal from Slicer	In	In	In	In
86	FG.AMP.OUT	I	Output from internal FG Amplifier	---	---	---	---
87	FG.AMP.IN	I	Input for internal FG Amplifier	---	---	---	---
88	GND(A)	-		---	---	---	---
89	AV3_S_IN(L)	I	Detection of composite or component for AV3 VIDEO INPUT.	In	In	In	In
90	PFG	I	FPG input terminal.	---	---	---	---
91	OREF	O	Output from internal reference voltage (2.5V)	---	---	---	---
92	IREF	I	Input for internal reference voltage	---	---	---	---
93	SCAS_IN(L)	I	Detection between VHS tape or S-VHS tape.	In	In	In	In
94	CTL.HEAD(-)	I/O	Input signal from CTL HEAD(+)	---	---	---	---
95	CTL.HEAD(+)	I/O	Input signal from CTL HEAD(-)	---	---	---	---
96	CTL.AMP.REF	I	Input for internal CTL amplifier reference voltage	---	---	---	---
97	PB.CTL.OUT	O	Output from internal CLT amplifier	---	---	---	---
98	+5V(A)	-		---	---	---	---
99	+5V(AD)	-		---	---	---	---
100	EX.FF/REW(L)	O	Control terminal for the filter of the PB-CTL signal during FF/REW.	Low	Low	Low	Low

INPUT CONDITION								OUTPUT RESULT							
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV1 OUT	AV1 S(H)	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT
OFF	---	---	---	---	---	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	TUN(000)	TUN
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	TUN(000)	TUN
EXT LINK 1/2 Standby	---	---	---	L	NO.TU	L/M/H	---	MUTE	L	MUTE	*1[L(0)]	L	OFF(1)	TUN(000)	TUN
					C+.TU	L/M/H	---	MUTE	L	MUTE	*1[L(0)]	L	OFF(1)	TUN(000)	TUN
					AV1	L/M/H	---	MUTE	L	MUTE	*1[L(0)]	L	OFF(1)	AV1(100)	AV1
					AV2	L/M/H	---	MUTE	L	MUTE	*1[L(0)]	L	OFF(1)	AV2(010)	AV2
					AV3	L/M/H	---	MUTE	L	MUTE	*1[L(0)]	L	OFF(1)	AV3(110)	AV3
					H	no chance		---	---	---	---	---	---	---	---
				H	no chance		---	---	---	---	---	---	---	---	---
VPS STAND BY	EXT	---	---	L	NO.TU	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	TUN(000)	TUN
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	TUN(000)	TUN
					C+.TU	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	TUN(000)	TUN
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	TUN(000)	TUN
					AV1	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV1(100)	AV1
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV1(100)	AV1
					AV2	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV2(010)	AV2
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV2(010)	AV2
					AV3	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV3(110)	AV3
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV3(110)	AV3
				H	NO.TU	L	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	H	OFF(1)	TUN(000)	TUN
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	L	OFF(1)	TUN(000)	TUN
						S-VIDEO			H						
					C+.TU	L	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	H	OFF(1)	TUN(000)	TUN
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	L	OFF(1)	TUN(000)	TUN
						S-VIDEO			H						
					AV1	L	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	H	OFF(1)	AV1(100)	AV1
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	L	OFF(1)	AV1(100)	AV1
						S-VIDEO			H						
					AV2	L	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	H	OFF(1)	AV2(010)	AV2
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	L	OFF(1)	AV2(010)	AV2
						S-VIDEO			H						
					AV3	L	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	H	OFF(1)	AV3(110)	AV3
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	L	OFF(1)	AV3(110)	AV3
						S-VIDEO			H						
	DECODER	---	---	L	NO.TU	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	TUN(000)	TUN
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	TUN(000)	TUN
					C+.TU	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	TUN(000)	TUN
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	TUN(000)	TUN
					AV1	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV1(100)	AV1
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV2(010)	AV2
					AV2	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV2(010)	AV2
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV2(010)	AV2
					AV3	L	---	AV2 IN(0)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV3(110)	AV3
						M/H	---	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV3(110)	AV3
				H	NO.TU	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
						S-VIDEO			H						
					C+.TU	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
						S-VIDEO			H						
					AV1	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV1(100)	AV1
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
						S-VIDEO			H						
					AV2	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
						S-VIDEO			H						
					AV3	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV3(110)	AV3
						S-VIDEO			H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV3(110)	AV3
						S-VIDEO			H						

INPUT CONDITION								OUTPUT RESULT									
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV1 OUT	AV1 S(H)	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT		
P.ON	EXT or "DECODER and EXTLINK1/2 Standby is ON"	TV	EE	L	NO.TU	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	L(0)	L	OFF(1)	TUN(000)	TUN		
						S-VIDEO	Y OUT(11)	H									
					C+.TU	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	L(0)	L	OFF(1)	TUN(000)	TUN		
						S-VIDEO	Y OUT(11)	H									
					AV1	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	L(0)	L	OFF(1)	AV1(100)	AV1		
						S-VIDEO	Y OUT(11)	H									
					AV2	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	L(0)	L	OFF(1)	AV2(010)	AV2		
						S-VIDEO	Y OUT(11)	H									
					AV3	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	L(0)	L	OFF(1)	AV3(110)	AV3		
						S-VIDEO	Y OUT(11)	H									
				H	NO.TU	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	TUN(000)	TUN		
						S-VIDEO	Y OUT(11)	H									
					C+.TU	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	TUN(000)	TUN		
						S-VIDEO	Y OUT(11)	H									
					AV1	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	AV1(100)	AV1		
						S-VIDEO	Y OUT(11)	H									
					AV2	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	AV2(010)	AV2		
						S-VIDEO	Y OUT(11)	H									
					AV3	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	AV3(110)	AV3		
						S-VIDEO	Y OUT(11)	H									
				VTR	VV	L	NO.TU	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	M/H(1)	*3[M/H]	OFF(1)	TUN(000)	PB
								S-VIDEO	Y OUT(11)	H							
							C+.TU	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	M/H(1)	*3[M/H]	OFF(1)	TUN(000)	PB
								S-VIDEO	Y OUT(11)	H							
							AV1	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	M/H(1)	*3[M/H]	OFF(1)	AV1(100)	PB
								S-VIDEO	Y OUT(11)	H							
							AV2	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	M/H(1)	*3[M/H]	OFF(1)	AV2(010)	PB
								S-VIDEO	Y OUT(11)	H							
							AV3	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	M/H(1)	*3[M/H]	OFF(1)	AV3(110)	PB
								S-VIDEO	Y OUT(11)	H							
						H	NO.TU	---	VIDEO	VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	TUN(000)	PB
								S-VIDEO	Y OUT(11)	H							
	C+.TU	---	VIDEO				VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	TUN(000)	PB			
		S-VIDEO	Y OUT(11)				H										
	AV1	---	VIDEO				VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	AV1(100)	PB			
		S-VIDEO	Y OUT(11)				H										
	AV2	---	VIDEO				VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	AV2(010)	PB			
		S-VIDEO	Y OUT(11)				H										
	AV3	---	VIDEO				VCR OUT(1)	L	VCR OUT(11)	H(1)	*2[H]	OFF(1)	AV3(110)	PB			
		S-VIDEO	Y OUT(11)				H										

INPUT CONDITION								OUTPUT RESULT							
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV1 OUT	AV1 S(H)	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT
P.ON	DECODER	TV	EE	L	NO.TU	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	L(0)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	TUN(000)	TUN
							S-VIDEO	AV2 IN(0)	L						
					C+.TU	L	VIDEO	VCR OUT(1)	L	TUN IN(10)	L(0)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	TUN IN(10)	L(0)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV1	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV1(100)	AV1
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV2(010)	AV2
							S-VIDEO	AV2 IN(0)	L						
					AV2	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV2(010)	AV2
							S-VIDEO	AV2 IN(0)	L						
					AV3	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	L(0)	L	OFF(1)	AV3(110)	AV3
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	AV2 IN(0)	L	AV1 IN(00)	M/H(1)	L	*4	AV3(110)	AV3
							S-VIDEO	AV2 IN(0)	L						
				H	NO.TU	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
					C+.TU	L	VIDEO	VCR OUT(1)	L	TUN IN(10)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	TUN IN(10)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV1	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV1(100)	AV1
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV2	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV3	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV3(110)	AV3
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV3(110)	AV3
							S-VIDEO	Y OUT(11)	H						
		VTR	EE	L	NO.TU	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
					C+.TU	L	VIDEO	VCR OUT(1)	L	TUN IN(10)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	TUN IN(10)	M/H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV1	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV1(100)	AV1
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV2	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV3	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV3(110)	AV3
							S-VIDEO	Y OUT(11)	H						
						M/H	VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV3(110)	AV3
							S-VIDEO	Y OUT(11)	H						

INPUT CONDITION								OUTPUT RESULT							
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV1 OUT	AV1 S(H)	AV2 OUT	AV1 PB(H)	AV2 PB(H)	RGB SW	VCR IN	VCR OUT
P.ON	DECODER	VTR	EE	H	NO.TU	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
					C+.TU	L	VIDEO	VCR OUT(1)	L	TUN IN(10)	H(1)	L	OFF(1)	TUN(000)	TUN
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	TUN IN(10)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV1	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV1(100)	AV1
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV2	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV2(010)	AV2
							S-VIDEO	Y OUT(11)	H						
					AV3	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV3(110)	AV3
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	AV1 IN(00)	H(1)	L	OFF(1)	AV3(110)	AV3
							S-VIDEO	Y OUT(11)	H						
			VV	---	NO.TU	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	TUN(000)	PB
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	TUN(000)	PB
							S-VIDEO	Y OUT(11)	H						
					C+.TU	L	VIDEO	VCR OUT(1)	L	TUN IN(10)	M/H(1)	L	OFF(1)	TUN(000)	PB
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	TUN IN(10)	M/H(1)	L	OFF(1)	AV2(010)	PB
							S-VIDEO	Y OUT(11)	H						
					AV1	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV1(100)	PB
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV2(010)	PB
							S-VIDEO	Y OUT(11)	H						
					AV2	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV2(010)	PB
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV2(010)	PB
							S-VIDEO	Y OUT(11)	H						
					AV3	L	VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV3(110)	PB
							S-VIDEO	Y OUT(11)	H						
							VIDEO	VCR OUT(1)	L	AV1 IN(00)	M/H(1)	L	OFF(1)	AV3(110)	PB
							S-VIDEO	Y OUT(11)	H						

INPUT CONDITION								Audio Output Results					IC4501 settings			Mute signals			
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV1 Out	AV2 Out	RF (C)	AV1 Out Selector	AV2 Out Selector	REC/ PB	Input Select	Dec Select	Mute (H)	A-Mute (H)		
OFF	---	---	---	---	---	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
						M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
EXT LINK 1/2 Standby	---	---	---	L	NO.TU	L/M/H	---	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H		
					C+.TU	L/M/H	---	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H		
					AV1	L/M/H	---	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H		
					AV2	L/M/H	---	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H		
					AV3	L/M/H	---	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H		
				H	no chance	---	---	---	---	---	---	---	---	---	---	---	---	---	
VPS STAND BY	EXT	---	---	L	NO.TU	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
						M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
					C+.TU	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
						M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
					AV1	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
						M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
					AV2	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
						M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
					AV3	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
						M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H		
					H	NO.TU	L	VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H	
							S-VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H		
				C+.TU		L	VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H		
						S-VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H			
				M/H		VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H			
						S-VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H			
				AV1		L	VIDEO	Mute	Mute	Mute	AV1IN	AV1IN	REC	EXT1	EXT1	H	H		
						S-VIDEO	Mute	Mute	Mute	AV1IN	AV1IN	REC	EXT1	EXT1	H	H			
				M/H		VIDEO	Mute	Mute	Mute	AV1IN	AV1IN	REC	EXT1	EXT1	H	H			
						S-VIDEO	Mute	Mute	Mute	AV1IN	AV1IN	REC	EXT1	EXT1	H	H			
				AV2		L	VIDEO	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H		
						S-VIDEO	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H			
				M/H	VIDEO	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H				
					S-VIDEO	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H				
	AV3	L	VIDEO	Mute	Mute	Mute	AV3IN	AV1IN	REC	EXT3	EXT1	H	H						
		S-VIDEO	Mute	Mute	Mute	AV3IN	AV1IN	REC	EXT3	EXT1	H	H							
	M/H	VIDEO	Mute	Mute	Mute	AV3IN	AV1IN	REC	EXT3	EXT1	H	H							
		S-VIDEO	Mute	Mute	Mute	AV3IN	AV1IN	REC	EXT3	EXT1	H	H							
	DECODER	---	---	---	L	NO.TU	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
							M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
						C+.TU	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
							M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
						AV1	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
							M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
						AV2	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
							M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
						AV3	L	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
							M/H	---	AV2IN	AV1IN	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	L	H	
						H	NO.TU	L	VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H
								S-VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H	
					M/H		VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H		
							S-VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H		
					C+.TU		L	VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H	
							S-VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H		
					M/H		VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H		
							S-VIDEO	Mute	Mute	Mute	TUN	AV1IN	REC	TV	EXT1	H	H		
					AV1		L	VIDEO	Mute	Mute	Mute	AV1IN	AV1IN	REC	EXT1	EXT1	H	H	
							S-VIDEO	Mute	Mute	Mute	AV1IN	AV1IN	REC	EXT1	EXT1	H	H		
M/H					VIDEO		Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H			
					S-VIDEO		Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H			
AV2					L	VIDEO	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H			
					S-VIDEO	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H				
M/H	VIDEO	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H								
	S-VIDEO	Mute	Mute	Mute	AV2IN	AV1IN	REC	EXT2	EXT1	H	H								
AV3	L	VIDEO	Mute	Mute	Mute	AV3IN	AV1IN	REC	EXT3	EXT1	H	H							
	S-VIDEO	Mute	Mute	Mute	AV3IN	AV1IN	REC	EXT3	EXT1	H	H								
M/H	VIDEO	Mute	Mute	Mute	AV3IN	AV1IN	REC	EXT3	EXT1	H	H								
	S-VIDEO	Mute	Mute	Mute	AV3IN	AV1IN	REC	EXT3	EXT1	H	H								

INPUT CONDITION								Audio Output Results					IC4501 settings			Mute signals			
POWER	AV2 SELECT	TV/ VTR	EE/ VV	OSD ON(H)	INPUT CH	AV2 PB(H)	AV1 OUT	AV1 Out	AV2 Out	RF (C)	AV1 Out Selector	AV2 Out Selector	REC/ PB	Input Select	Dec Select	Mute (H)	A-Mute (H)		
P.ON	DECODER	VTR	EE	H	NO.TU	L	VIDEO	TUN	AV1IN	TUN	TUN	AV1IN	REC	TV	EXT1	L	L		
							S-VIDEO	TUN	AV1IN	TUN	TUN	AV1IN	REC	TV	EXT1	L	L		
						M/H	VIDEO	TUN	AV1IN	TUN	TUN	AV1IN	REC	TV	EXT1	L	L		
						S-VIDEO	C+.TU	L	VIDEO	TUN	TUN	TUN	TUN	REC	TV	TVIN	L	L	
									S-VIDEO	TUN	TUN	TUN	TUN	REC	TV	TVIN	L	L	
					M/H	VIDEO		AV2IN	TUN	AV2IN	AV2IN	TUN	REC	EXT2	TVIN	L	L		
						S-VIDEO	AV1	L	VIDEO	AV1IN	AV1IN	AV1IN	AV1IN	REC	EXT1	EXT1	L	L	
									S-VIDEO	AV2IN	AV1IN	AV2IN	AV2IN	AV1IN	REC	EXT2	EXT1	L	L
					M/H	VIDEO		AV2IN	AV1IN	AV2IN	AV2IN	AV1IN	REC	EXT2	EXT1	L	L		
						S-VIDEO	AV2	L	VIDEO	AV2IN	AV1IN	AV2IN	AV2IN	AV1IN	REC	EXT2	EXT1	L	L
									S-VIDEO	AV2IN	AV1IN	AV2IN	AV2IN	AV1IN	REC	EXT2	EXT1	L	L
					M/H	VIDEO		AV2IN	AV1IN	AV2IN	AV2IN	AV1IN	REC	EXT2	EXT1	L	L		
						S-VIDEO	AV3	L	VIDEO	AV3IN	AV1IN	AV3IN	AV3IN	AV1IN	REC	EXT3	EXT1	L	L
									S-VIDEO	AV3IN	AV1IN	AV3IN	AV3IN	AV1IN	REC	EXT3	EXT1	L	L
					M/H	VIDEO		AV3IN	AV1IN	AV3IN	AV3IN	AV1IN	REC	EXT3	EXT1	L	L		
				S-VIDEO	VV	---	NO.TU	L	VIDEO	PB	AV1IN	PB	TUN	AV1IN	PB	TV	EXT1	L	L
									S-VIDEO	PB	AV1IN	PB	TUN	AV1IN	PB	TV	EXT1	L	L
			M/H	VIDEO				PB	AV1IN	PB	TUN	AV1IN	PB	TV	EXT1	L	L		
				S-VIDEO	C+.TU	L	VIDEO	PB	TUN	PB	TUN	TUN	PB	TV	TVIN	L	L		
							S-VIDEO	PB	TUN	PB	TUN	TUN	PB	TV	TVIN	L	L		
			M/H	VIDEO		PB	TUN	PB	AV2IN	TUN	PB	EXT2	TVIN	L	L				
				S-VIDEO	AV1	L	VIDEO	PB	AV1IN	PB	AV1IN	AV1IN	PB	EXT1	EXT1	L	L		
							S-VIDEO	PB	AV1IN	PB	AV2IN	AV1IN	PB	EXT2	EXT1	L	L		
			M/H	VIDEO		PB	AV1IN	PB	AV2IN	AV1IN	PB	EXT2	EXT1	L	L				
				S-VIDEO	AV2	L	VIDEO	PB	AV1IN	PB	AV2IN	AV1IN	PB	EXT2	EXT1	L	L		
							S-VIDEO	PB	AV1IN	PB	AV2IN	AV1IN	PB	EXT2	EXT1	L	L		
			M/H	VIDEO		PB	AV1IN	PB	AV2IN	AV1IN	PB	EXT2	EXT1	L	L				
				S-VIDEO	AV3	L	VIDEO	PB	AV1IN	PB	AV3IN	AV1IN	PB	EXT3	EXT1	L	L		
							S-VIDEO	PB	AV1IN	PB	AV3IN	AV1IN	PB	EXT3	EXT1	L	L		
			M/H	VIDEO		PB	AV1IN	PB	AV3IN	AV1IN	PB	EXT3	EXT1	L	L				
				S-VIDEO															

Remark:

NO.TU
 Tuner position, DECODER OFF (e.g. ARD)

C+TU
 Tuner position, DECODER ON (e.g. PREMI)

RGW SW
 OFF = HIGH

RGW SW
 ON = LOW

EE
 Non-Playback signal

VV
 Playback signal

INSEL
 Inputselect= Audio Output signal from AN3655 at Line Out

*1[L(0)]
 In case of EXT LINK1 standby(not EXT LINK2), AV1 PB must not output 'M' or 'H'

2[H] / *3[M/H]
 AV2 PB must not output 'M' or 'H' if AV2 PB IN is 'M' or 'H'.

*4
 RGB SW output "ON" if AV1PB is "H" or "M". (RGB SW output "OFF" if AV1PB is "L")

SYSTEM CONTROL & SERVO ICS DC VOLTAGE CHART (SP MODE)																							
Ref. No.	IC1501								IC1502														
MODE	1	2	3	4					1	2	3	4											
STOP	1.2	2.3	0.1	0.0					0.0	1.2	5.0	0.0											
PLAY	1.2	2.3	4.3	0.0					0.0	1.2	5.0	0.0											
REC	1.2	2.3	4.3	0.0					0.0	1.2	5.0	0.0											
F.F	1.2	2.3	1.2	0.0					0.0	1.2	2.3	0.0											
REW	1.2	2.3	2.2	0.0					0.0	1.2	2.3	0.0											
Ref. No.	IC2501																						
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16							
STOP	15.4	15.4	15.6	1.0	5.1	1.1	1.2	0.5	2.4	1.4	-0.1	3.9	3.9	3.9	0.0	15.4							
PLAY	15.0	15.0	15.2	1.0	5.1	1.1	1.2	0.5	2.5	1.4	0.0	3.9	3.9	3.9	0.0	15.0							
REC	15.1	15.0	15.3	1.0	5.1	1.1	1.2	0.5	2.4	1.4	-0.1	3.9	3.9	3.9	0.0	15.0							
F.F	14.7	14.6	14.9	1.1	5.1	1.1	1.2	0.5	2.5	1.4	0.0	3.9	3.9	3.9	0.0	15.0							
REW	14.6	14.6	14.9	1.1	5.1	1.1	1.2	0.5	2.5	1.4	0.0	3.9	3.9	3.9	0.0	14.8							
Ref. No.	IC6001																						
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
STOP	4.8	4.2	4.8	0.0	0.0	5.1	5.0	5.0	3.3	0.0	0.0	1.4	0.0	5.2	4.8	0.0	4.8	2.4	0.0	0.0			
PLAY	4.8	4.2	4.8	0.0	0.0	5.0	5.0	4.5	1.4	4.5	4.8	1.4	0.0	5.2	0.0	0.0	4.9	2.4	2.4	0.0			
REC	4.8	4.2	4.8	0.0	0.0	5.0	5.0	4.5	3.3	0.0	4.7	1.4	0.0	5.2	4.8	0.0	4.8	2.4	0.0	0.0			
F.F	0.0	4.2	4.8	0.0	0.0	5.1	4.9	4.5	3.4	0.0	5.0	1.4	0.0	5.2	4.8	0.0	4.8	2.4	0.0	0.0			
REW	4.8	4.2	4.8	0.0	0.0	5.1	4.9	4.5	3.4	0.0	5.0	1.4	0.0	5.2	4.8	0.0	4.8	2.4	0.0	0.0			
Ref. No.	IC6001																						
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
STOP	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.8	0.0	0.0	4.9	1.4	1.5	4.9	2.1	2.0	0.0			
PLAY	0.0	0.0	4.2	4.9	0.0	0.0	0.0	0.0	0.0	4.3	4.9	0.0	0.0	4.9	1.4	1.5	4.9	2.1	2.0	0.0			
REC	0.0	0.0	4.2	0.0	4.8	4.8	4.8	0.0	0.0	0.0	4.8	0.0	0.0	4.9	1.4	1.5	4.9	2.1	2.0	0.0			
F.F	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	0.0	4.9	1.4	1.5	4.9	2.1	2.0	0.0			
REW	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	0.0	4.9	1.4	1.6	4.9	2.1	2.0	0.0			
Ref. No.	IC6001																						
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60			
STOP	4.8	0.0	4.8	0.0	0.0	0.0	1.7	2.1	0.0	1.6	2.5	1.6	5.0	2.1	0.0	1.9	0.0	0.0	0.0	0.0			
PLAY	4.8	0.0	4.9	0.0	0.0	0.0	1.7	2.1	0.0	1.6	2.5	1.6	5.0	2.1	0.0	1.9	0.0	0.0	0.0	0.0			
REC	4.8	0.0	4.8	0.0	0.0	0.0	1.7	2.1	0.0	1.6	2.5	1.6	5.0	2.1	0.0	1.9	0.0	0.0	0.0	0.0			
F.F	4.8	0.0	4.8	0.0	0.0	0.0	1.7	2.1	0.0	1.6	2.5	1.6	5.0	2.1	0.0	1.9	0.0	0.0	0.0	0.1			
REW	4.8	0.0	4.9	0.0	0.0	0.0	1.7	2.1	0.0	1.6	2.5	1.6	5.0	2.1	0.0	1.9	0.0	0.0	0.0	0.1			
Ref. No.	IC6001																						
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80			
STOP	4.8	0.0	0.0	2.4	0.0	0.0	0.0	4.7	4.7	4.8	2.9	2.8	0.0	0.0	0.0	0.0	2.4	5.2	0.1	5.0			
PLAY	4.8	0.0	0.0	2.4	0.0	0.0	0.0	4.7	4.7	4.8	2.9	2.8	0.0	0.0	0.4	2.5	2.4	5.2	5.0	4.1			
REC	4.8	0.0	0.0	2.4	0.0	0.0	0.0	4.7	4.7	4.8	2.9	2.8	0.0	0.0	0.4	2.5	2.4	5.2	5.0	4.3			
F.F	4.8	0.0	0.0	2.4	0.0	0.0	0.0	4.6	4.6	4.8	2.9	2.8	0.0	0.0	0.4	4.8	2.5	5.2	2.4	2.2			
REW	4.8	0.0	0.0	2.4	0.0	0.0	0.0	4.6	4.6	4.8	2.9	2.8	0.0	4.8	4.5	2.6	2.5	5.2	2.2	2.4			
Ref. No.	IC6001																						
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100			
STOP	0.0	4.9	0.0	5.0	5.0	2.5	2.5	-0.1	5.0	1.0	2.5	2.5	0.0	2.4	2.4	2.5	2.5	5.1	5.1	0.0			
PLAY	0.0	4.9	0.0	5.0	5.0	2.5	2.5	-0.1	5.0	1.1	2.5	2.5	0.0	2.4	2.4	2.5	2.5	5.1	5.1	0.0			
REC	0.0	4.9	0.0	5.0	5.0	2.5	2.5	-0.1	5.0	1.0	2.5	2.5	0.0	2.2	2.4	2.7	2.5	5.0	5.0	0.0			
F.F	0.0	4.9	0.0	5.0	5.0	2.5	2.5	-0.1	5.0	1.1	2.5	2.5	0.0	2.4	2.4	2.5	2.6	0.0	5.1	1.8			
REW	0.0	4.9	0.0	5.0	5.0	2.5	2.5	-0.1	5.0	1.1	2.5	2.5	0.0	2.5	2.5	2.5	2.6	5.1	5.1	1.7			
Ref. No.	IC6002																						
MODE	1	2	3	4	5	6	7	8															
STOP	0.0	0.0	0.0	0.0	2.8	2.9	4.9	5.0															
PLAY	0.0	0.0	0.0	0.0	2.8	2.9	4.9	5.1															
REC	0.0	0.0	0.0	0.0	2.8	2.9	4.8	5.0															
F.F	0.0	0.0	0.0	0.0	2.8	2.9	4.8	5.1															
REW	0.0	0.0	0.0	0.0	2.8	2.9	4.8	5.1															
Ref. No.	IC6003																						
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
STOP	0.0	0.0	-	2.9	2.8	0.0	0.4	-	5.0	0.0	0.0	2.5	-	2.6	2.5	1.5	1.3	-	5.0	5.0			
PLAY	0.0	0.0	-	2.9	2.8	0.0	0.4	-	5.0	5.0	0.0	2.6	-	2.6	2.6	1.5	1.3	-	5.0	5.0			
REC	0.0	0.0	-	2.9	2.8	0.0	0.4	-	5.0	0.0	0.0	2.5	-	2.5	2.5	1.5	1.3	-	5.0	5.0			
F.F	0.0	0.0	-	2.9	2.8	0.0	0.4	-	5.0	0.0	0.0	2.5	-	2.6	2.5	1.5	1.3	-	5.0	5.0			
REW	0.0	0.0	-	2.9	2.8	0.0	0.4	-	5.0	0.0	0.0	2.5	-	2.6	2.5	1.5	1.3	-	5.0	5.0			

SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (SP MODE)																						
Ref. No.	Q1501			Q1502			Q6004			Q6008			Q6009									
MODE	(-)	(+)		(-)	(+)		E	C	B	E	C	B	E	C	B							
STOP	-0.1	4.5		0.0	5.0		1.4	0.0	0.8	-0.1	12.4	0.0	1.6	5.0	2.3							
PLAY	-0.1	4.6		0.0	5.0		1.2	0.0	0.8	11.8	12.4	12.3	1.6	5.0	2.3							
REC	-0.1	4.6		0.0	5.0		1.4	0.0	0.8	-0.1	12.4	0.0	1.6	5.0	0.0							
F.F	-0.1	4.6		0.0	5.0		1.4	0.0	0.8	-0.1	12.4	0.0	1.6	5.0	2.3							
REW	-0.1	4.7		0.0	4.9		1.4	0.0	0.8	-0.1	12.4	0.0	1.6	5.0	2.3							
Ref. No.	Q6010			QR6001			QR6004															
MODE	E	C	B	E	C	B	E	C	B													
STOP	2.3	0.0	1.6	0.0	0.0	4.8	-0.1	0.0	4.8													
PLAY	2.3	0.0	1.6	0.0	12.3	0.0	-0.1	0.0	4.8													
REC	2.3	0.0	1.6	0.0	0.0	4.8	-0.1	0.0	4.8													
F.F	2.3	0.0	1.6	0.0	0.0	4.8	-0.1	0.0	4.8													
REW	2.3	0.0	1.6	0.0	0.0	4.8	-0.1	0.0	4.8													

443NT [L]	4.43 NTSC ①	BIL	BILINGUAL
A. COMP	AUDIO COMPONENT SIGNAL	BIL [L]	BILINGUAL ①
A. COMPO	AUDIO COMPONENT SIGNAL	BIL. [H]	BILINGUAL ②
A. D.P [L]	AUDIO DUBBING PAUSE ①	BIL/M1 [L]	BILINGUAL ①
A. D/L [L]	AUDIO DUBBING PAUSE ①	BS CLOCK	BS CLOCK
A. DEF [S]	AUDIO DEFEAT	BS DATA	BS DATA
A. DEF [S] [L]	AUDIO DEFEAT	BS LCH IN	BS L CHANNEL INPUT
A. DUB P [L]	AUDIO DUBBING PAUSE ①	BS MIX [H]	BS MIX ②
A. DUB [H]	AUDIO DUBBING ②	BS MON [H]	BS MONITOR ②
A. ERASE	AUDIO ERASE	BS MONI [H]	BS MONITOR ②
A. H. SW	AUDIO HEAD SWITCHING PULSE	BS RCH IN	BS R CHANNEL INPUT
A. HEAD [R]	AUDIO HEAD (REC)	BS VIDEO	BS VIDEO SIGNAL
A. HEAD [W]	AUDIO HEAD (PLAY)	BS VIDEO/BS1	BS VIDEO SIGNAL
A. IN [L]	AUDIO INPUT (L)	BS [H]	BS ②
A. IN [R]	AUDIO INPUT (R)	BS. LEVEL	BS LEVEL
A. MUT [H]	AUDIO MUTE ②	BS. M [H]	BS MONITOR ②
A. MUTE [H]	AUDIO MUTE ②	BS/VTR [H]	BS/VTR ②
A. OUT [L]	AUDIO OUTPUT (L)	BUS CLK	BUS CLOCK
A. OUT [R]	AUDIO OUTPUT (R)	BUS LSN	BUS LISTEN
A. RF OUT	AUDIO RF SIGNAL OUTPUT	BUS TLK	BUS TALK
A/VS/S. DATA	AV SW/SERIAL DATA	BUZZER	BUZZER
AC ONLINE	AC ONLINE	CAP EC	CAPSTAN TORQUE CONTROL
AC. O/EE. H	AC ONLINE/EE ②	CAP M GND	CAPSTAN MOTOR GND
AFC S C	AFC S CURVE	CAP. ET	CAPSTAN TORQUE CONTROL
AFC [S]	AFC S CURVE	CAP. FG1	CAPSTAN FG1 PULSE
AFC. DEF	AFC DEFEAT	CAP. FG2	CAPSTAN FG2 PULSE
ARFC OUT	AUDIO RF SIGNAL OUTPUT	CAS. SW	CASSETTE SW
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL	CCN	PLAYBACK CONTROL SIGNAL (-)
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI	CCP	PLAYBACK CONTROL SIGNAL (+)
	ARTIFICIAL VERTICAL SYNC SIGNAL ②/NORMAL	CHM	CONTROL SIGNAL (+)
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL ②/NORMAL	CHP	CONTROL SIGNAL (-)
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL	CINEM [L]	CINEMA ①
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE	CINEMA [L]	CINEMA ①
AUDIO IN [L]	AUDIO INPUT (L)	CINEMA/MIX	CINEMA/MIX
AUDIO IN [R]	AUDIO INPUT (R)	CKL	RATCH LOCK
AUDIO OUT [L]	AUDIO OUTPUT (L)	CKS	SHIFT LOCK
AUDIO OUT [R]	AUDIO OUTPUT (R)	CL	CLOCK
AUDIO SELECT [H]	AUDIO SELECT ②	CLK	CLOCK
AUDIO. L	AUDIO (L)	CLK (C.G)	CLOCK
AUDIO. R	AUDIO (R)	CLOCK. IN	CLOCK INPUT
AV CNT	AV CONTROL	CLP	CLAMP
AV CTL	AV CONTROL	COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK	COLOR [H]	COLOUR ②
AV. C.M.	AV CONTROL MODE	CONV	CONVERTOR
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)	CS	CHIP SELECT
AVSW/METER. L	AV SW/LEVEL METER (L)	CTL GND	CONTROL GND
B MODE. H	B MODE ②	CTL HEAD [+]	CONTROL HEAD (+)
B.G.P	BURST GATE PULSE	CTL HEAD [-]	CONTROL HEAD (-)
BACKUP 5V	BACK UP 5V	CTL [+]	CONTROL HEAD (+)
BAND. U.E.	BAND U	CTL [-]	CONTROL HEAD (-)
BANDVL. D	BAND VL	CUE BIAS	CUE BIAS
BI/MI [L]	BILINGUAL/MIX ①	CURRENT LIM	CURRENT LIMMITER
		CYL ET	CYLINDER TORQUE CONTROL

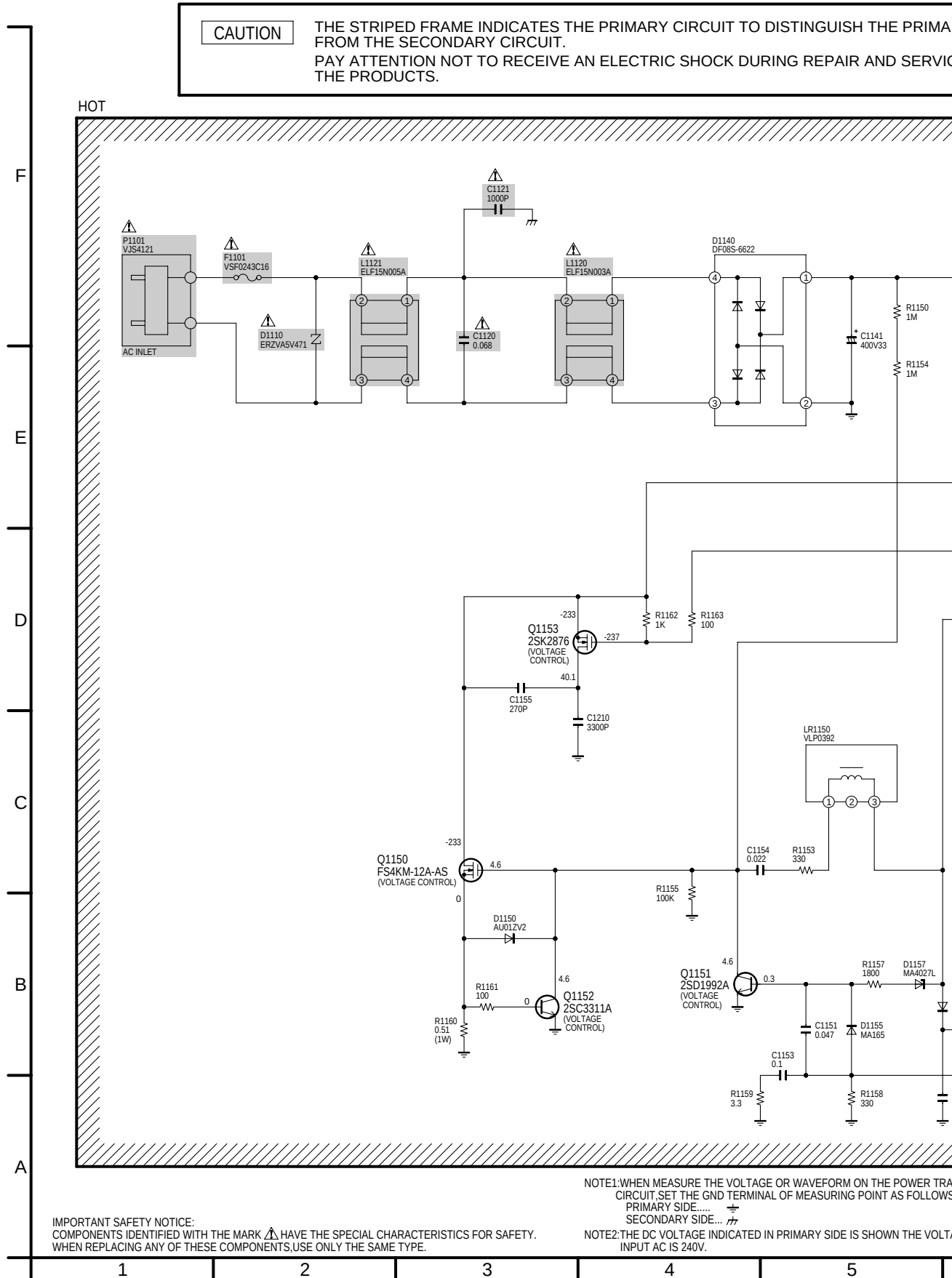
CYL GND	CYLINDER GND	FULL. E. 12V	FULL ERASE 12V
D.F.M. REC [H]	DELAIED FM RECORDING Ⓜ	GND [A]	GND (ANALOG)
D. FM REC [L]	DELAIED FM RECORDING Ⓛ	GND [TU]	GND (TUNER)
D. GND	DIGITAL GND	GND/N. SW. 12V	GND/NON SW 12V
D. REC [H]	DELAYED RECORDING Ⓜ	H. SYNC	HORIZONTAL SYNC
D4/S. LED	D4/STILL LED	H. AMP. SW	HEAD AMP SW PULSE
D4/STILLED	D4/STILL LED	H. P <R>	HEAD PHONE (R)
DAC [CLK]	TUNER DAC (CLOCK)	H. P <L>	HEAD PHONE (L)
DAC/FSCS	TUNER DAC/FS CHIP SELECT	H. P GND	HEAD PHONE GND
DAREC [H]	DELAYED AUDIO RECORDING Ⓜ	H. P OUT [L]	HEAD PHONE OUTPUT (L)
DATA	DATA	H. P OUT [R]	HEAD PHONE OUTPUT (R)
DECODER [L]	DECODER (L)	H. SW	HEAD SW PULSE
DECODER [R]	DECODER (R)	HEAD PHONE [L]	HEAD PHONE (L)
DEW	DEW	HEAD PHONE [R]	HEAD PHONE (R)
DEW SNS	DEW SENSOR	HEAD SW	HEAD SW
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓜ	HEATER [+]	HEATER (+)
E. REC 5V	EXCEPT RECORDING 5V	HEATER [-]	HEATER (-)
EC	ERROR TORQUE CONTROL	HSS	HORIZONTAL SYNC SIGNAL
ECR	ERROR TORQUE CONTROL	HTR [+]	HEATER (+)
	REFERENCE VOLTAGE	HTR [-]	HEATER (-)
EDT TRIG [L]	EDIT TRIGGER Ⓛ	I RFE	REFERENCE CURRENT
EDIT [H]	EDIT Ⓜ	ICL	CONTROL AGC CIRCUIT
EE [H]	EE Ⓜ	IF	INTERMEDIATE FREQUENCY
EE [H]/INS [M]	EE Ⓜ/INSERT Ⓜ	IN SELA1	INPUT SELECT A1 POSITION
EE. VV. TR	EE/VV/TRICK PLAY	IN SELA2	INPUT SELECT A2 POSITION
EJECT. PO	EJECT POSITION	IN SELA3	INPUT SELECT A3 POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK	INS L/R [L]	INSERT Lch/Rch Ⓛ
ENV. SEL	ENVELOPE SELECT	INS. [H]	INSERT Ⓜ
ENVE. OUT	ENVELOPE OUTPUT	INSEL A1	INPUT SELECT A1 POSITION
ENVE. SEL	ENVELOPE SELECT	INSEL A2	INPUT SELECT A2 POSITION
ENV SELECT	ENVELOPE SELECT	INSERT	INSERT
EP [H]	LP Ⓜ	INSERT [H]	INSERT Ⓜ
EP/LP [H]	LP Ⓜ	IO CS	INPUT/OUTPUT CHIP SELECT
EP/LP/SP	LP/SP	JOG1	JOG1
EP/SS [H]	LP/SLOW/STILL/STOP Ⓜ	JOG S3 LED/FOWRD	JOG LED/FORWARD LED
EPROMCS	EPROM CHIP SELECT	JOG/F. LED	JOG LED/FORWARD LED
EX. REC 5V	EXCEPT RECORDING 5V	JSB [H]	JSB Ⓜ
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ	JST. CLCK	JUST CLOCK
FG1 IN	FG1 PULSE INPUT	JST. CLK	JUST CLOCK
FG2 IN	FG2 PULSE INPUT	JST. CLOCK	JUST CLOCK
FILTER ADJUSTMENT	FILTER ADJUSTMENT	L. OUT	Lch OUTPUT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓜ	L. CH [H]	Lch Ⓜ
FLY ON [H]	FLYING ERASE HEAD ON Ⓜ	L. CH [L]	Lch Ⓛ
FLY. E [H]	FLYING ERASE HEAD ON Ⓜ	LED (MAIN)	LED (MAIN)
FM MUT [H]	FM AUDIO MUTE Ⓜ	LED (STEREO)	LED (STEREO)
FM MUTE [H]	FM AUDIO MUTE Ⓜ	LED (SUB)	LED (SUB)
FM OUT [L]	FM OUTPUT (L)	LED CKL	LED SERIAL CLOCK
FM OUT [R]	FM OUTPUT (R)	LED CKS	LED SERIAL CLOCK
FM PACK OUT [L]	FM PACK OUTPUT (L)	LED DATA	LED SERIAL DATA
FM PACK OUT [R]	FM PACK OUTPUT (R)	LINE IN 1 [L]	LINE INPUT 1 (L)
FM/BS SEL [L]	FM/BS SELECT (L)	LINE IN 1 [R]	LINE INPUT 1 (R)
FM/BS SEL [R]	FM/BS SELECT (R)	LINE IN 2 [L]	LINE INPUT 2 (L)
FS. CLK	FS CLOCK	LINE IN 2 [R]	LINE INPUT 2 (R)
FUL. E [H]	FULL ERASE HEAD ON Ⓜ	LINE IN V	LINE INPUT VIDEO
FULL. E [H]	FULL ERASE HEAD ON Ⓜ	LINE IN [L]	LINE INPUT (L)

LINE IN [R]	LINE INPUT (R)	P-OFF [H]	POWER OFF $\textcircled{\text{H}}$
LINE OUT [L]	LINE OUTPUT (L)	P-OFF [L]	POWER OFF $\textcircled{\text{L}}$
LINE OUT [R]	LINE OUTPUT (R)	P. FAIL	POWER FAILURE DETECT
LP [H]	LP $\textcircled{\text{H}}$	P. OFF [H]	POWER OFF $\textcircled{\text{H}}$
LPTRI [L]	LP TRICK PLAY $\textcircled{\text{L}}$	P. OFF [L]	POWER OFF $\textcircled{\text{L}}$
Lch/A. DUB	Lch/AUDIO DUBBING	PAL [H]	PAL $\textcircled{\text{H}}$
M GND	MOTOR GND	PAL [L]/NTSC [H]	PAL $\textcircled{\text{L}}$ /NTSC $\textcircled{\text{H}}$
M REG	MOTOR REGULATOR	PB ADJ OUT	PLAYBACK ADJUST OUTPUT
MAIN OUT	MAIN OUTPUT	PB OUT	PLAYBACK OUTPUT
MAIN [L]	MAIN $\textcircled{\text{L}}$	PB. H	PLAYBACK $\textcircled{\text{H}}$
MAIN/MONO	MAIN/MONAUURAL	PFG	PG/FG
MAX IN	MAXIMAM INPUT	PHOTSN +B	PHOTO SENSOR +B
MES [H]	MESECAM $\textcircled{\text{H}}$	PICT. CNT	PICTURE CONTROL
MESE [H]	MESECAM $\textcircled{\text{H}}$	PLAY LED/RVS LED	PLAY LED/REVERSE LED
MESE [L]	MESECAM $\textcircled{\text{L}}$	PLAY. PO	PLAY POSITION
METER 5V	LEVEL METER 5V	PLAY/R. LED	PLAY LED/REVERSE LED
METER [L]	LEVEL METER (L)	PLY/DEW	PLAY/DEW $\textcircled{\text{H}}$
METER [R]	LEVEL METER (R)	POWER OFF [L]	POWER OFF $\textcircled{\text{L}}$
METER. L/AVS	LEVEL METER (L)	PREROLL [H]	PREROLL $\textcircled{\text{H}}$
METER. R/AVC	LEVEL METER (R)	PWRFAIL	POWER FAILURE DETECT
MI/BI [L]	MIX $\textcircled{\text{H}}$ /BILIGUAL	R. CH [H]	Rch $\textcircled{\text{H}}$
MIC GND	MIC GND	R. CH [L]	Rch $\textcircled{\text{L}}$
MIC IN	MIC INPUT	R. ST	RESET
MIC IN [L]	MIC INPUT (L)	R/S/F	REVERSE $\textcircled{\text{H}}$ /STOP $\textcircled{\text{M}}$ /FORWARD $\textcircled{\text{L}}$
MIC IN [R]	MIC INPUT (R)	RCH [H]	Rch $\textcircled{\text{H}}$
MIC [H]	MIC $\textcircled{\text{H}}$	REC 12V	RECORDING 12V
MIX [H]	MIX $\textcircled{\text{H}}$	REC CHROMA	RECORDING CHROMINANCE SIGNAL
MIX [H]/CINEMA [L]	MIX $\textcircled{\text{H}}$ /CINEMA SOUND $\textcircled{\text{L}}$	REC H	RECORDING $\textcircled{\text{H}}$
MIX/CINE	MIX $\textcircled{\text{H}}$ /CINEMA SOUND $\textcircled{\text{L}}$	REC IN	RECORDING INPUT
MIX/CINEMA [L]	MIX $\textcircled{\text{H}}$ /CINEMA SOUND $\textcircled{\text{L}}$	REC OUT [L]	RECORDING OUTPUT $\textcircled{\text{L}}$
MN. H/M. L	MONAURAL $\textcircled{\text{H}}$ /MAIN $\textcircled{\text{L}}$	REC START	RECORDING START
MN. H/MAI. L	MONAURAL $\textcircled{\text{H}}$ /MAIN $\textcircled{\text{L}}$	REC VR [C]	RECORDING VOLUME (COMMON)
MN2/MES. L	MONAURAL 2/MESECAM $\textcircled{\text{L}}$	REC VR [L]	RECORDING VOLUME (L)
MODE SEL	AUDIO MODE SELECT	REC VR [R]	RECORDING VOLUME (R)
MODE SW	AUDIO MODE SW	REC Y	RECORDING LUMINANCE SIGNAL
MODE. S. IN	AUDIO MODE SELECT INPUT	REC [H]	RECORDING $\textcircled{\text{H}}$
MODE. S. OUT	AUDIO MODE SELECT OUTPUT	REC. C	RECORDING CHROMINANCE SIGNAL
MONO [H]	MONAURAL $\textcircled{\text{H}}$	REC. Y	RECORDING LUMINANCE SIGNAL
MONO [H]/MAIN [L]	MONAURAL $\textcircled{\text{H}}$ /MAIN $\textcircled{\text{L}}$	REC/EE CTL	RECORDING/EE CONTROL
MONO2 [L]	MONAURAL 2	REEL-T	REEL PULSE (TAKE-UP)
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM $\textcircled{\text{L}}$)	REEL-S	REEL PULSE (SUPPLY)
MOTOR GND	MOTOR GND	REGULATOR FILTER	REGULATOR FILTER
MUTE	MUTE	RESET	RESET
N. A. REC [L]	NORMAL AUDIO RECORDING	REV M F/R	REVIEW MOTOR
N. SW 12V	NON SW 12V		FORWARD/REVERSE
N. SW. 5. DET	NON SW 5V DETECT	REV M V1	REVIEW MOTOR V1
NICAM	NICAM	REV M V2	REVIEW MOTOR V2
NICAM [L]	NICAM $\textcircled{\text{L}}$	REV MOTOR F/R	REVIEW MOTOR
NOL [H]	PAL $\textcircled{\text{H}}$ /4.43 NTSC $\textcircled{\text{M}}$ /3.58 NTSC $\textcircled{\text{L}}$		FORWARD/REVERSE
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY $\textcircled{\text{H}}$	REV MOTOR V1	REVIEW MOTOR V1
NORMAL [H]	NORMAL $\textcircled{\text{H}}$	REV MOTOR V2	REVIEW MOTOR V2
NR BIAS	NR BIAS	REV MOTOR [+]	REVIEW MOTOR (+)
NTSC [L]	NTSC $\textcircled{\text{L}}$	REV MOTOR [-]	REVIEW MOTOR (+)
OCH	CONTROL AGC CIRCUIT	REV. M. GND	REVIEW MOTOR GND
OUT	OUTPUT	RF. CHROMA	RF CHROMINANCE SIGNAL

RF OUT	RF OUTPUT	SYSCON 5V	SYSTEM CONTROL 5V
RF Y	RF LUMINANCE SIGNAL	SYSTEM	SYSTEM SW
RF. Y. IN	RF LUMINANCE SIGNAL INPUT	T-PHOTO	TAKE-UP PHOTO TRANSISTOR
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT	T-RL. PLS	TAKE-UP REEL PULSE
ROTAR. SW	ROTARY SW	T. BUSCLK	TIMER BUS CLOCK
ROTARY	ROTARY SW	T. BUSLSN	TIMER BUS LISTEN
RST	RESET	T. BUSTLK	TIMER BUS TALK
RST [L]	RESET ①	T. END [L]	TAPE END ①
Rch/INST	Rch/INSERT	T. PHOTO	TAKE-UP PHOTO TRANSISTOR
S IN	SERIAL DATA INPUT	TAPE END [L]	TAPE END ①
S OUT	SERIAL DATA OUTPUT	TAPE END [L]/CAM	TAPE END ①/CAMERA PAUSE
S-PHOTO	SUPPLY PHOTO TRANSISTOR	TEST	TEST MODE
S-RL. PLS	SUPPLY REEL PULSE	TPZ	TRAPEZOIDAL WAVE CIRCUIT
S. CLK	SERIAL CLOCK	TRIC [L]	TRIC PLAY ①
S. CLK/AV	SERIAL CLOCK/AV	TRICK [L]	TRIC PLAY ①
S. DATA	SERIAL DATA	TRK. ENV	AUTO TRACKING ENVELOPE DETECT
S. DATA/A	SERIAL DATA	TU. AUDIO	TUNER AUDIO
S. PHOTO	SUPPLY PHOTO TRANSISTOR	TU. GND	TUNER GND
S. TAB [L]	SAFETY TAB SW ON ①	TU. V. IN	TUNER VIDEO SIGNAL INPUT
S/P/N	SECAM/PAL/NTSC	TU. VIDEO	TUNER VIDEO
SC IN	SERIAL CLOCK INPUT	TUN NOR IN	TUNER NORMAL INPUT
SC OUT	SERIAL CLOCK OUTPUT	TUN R	TUNER AUDIO (R)
SCK SELECT	SERIAL CLOCK SELECT	TUN. AUDIO IN	TUNER AUDIO INPUT
SEL OUT [L]	SELECT OUTPUT (L)	TUNER 12V	TUNER 12V
SEL OUT [R]	SELECT OUTPUT (R)	TUNER L	TUNER AUDIO (L)
SHUTTLE 1	SHUTTLE 1	TUNER V IN	TUNER VIDEO SIGNAL INPUT
SIF	SOUND INTERMEDIATE FREQUENCY	TUNER [L]	TUNER AUDIO (L)
SLMUT [H]	INPUT SELECT MUTE ①	TUNER [N]	TUNER AUDIO (NORMAL)
SLNID [+]	SOLENOID (+)	TUNER [R]	TUNER AUDIO (R)
SLNID [-]	SOLENOID (-)	TUNER. 12	TUNER 12V
SLW TR. MM	SLOW TRACKING MONO MULTI	TUOFF [H]	TUNER OFF ①
SLW TR. REF	SLOW TRACKING REFERENCE	TV. AUDIO	TV AUDIO
	VOLTAGE	TV/VTR	TV/VTR
SNS. GND	SENSOR GND	TXTON [L]	TEXT ON ①
SOFT [H]	SOFT TAPE PLAY ①	U. REG45V	UNREGULATOR 45V
SOFT [H]/NORMAL	SOFT TAPE PLAY ①/NORMAL ①	UNREG	UNREGULATOR
SOLENOID ON [L]	SOLENOID ON ①	UNREG19V	UNREGULATOR 19V
SP [H]	SP ①	V. REF	REFERENCE VOLTAGE
SP/L/SLP	SP/LP	V. EE [H]	VIDEO EE ①
SSS [L]	SLOW/STILL/STOP	V. EE [L]	VIDEO EE ①
STEREO LED	STEREO LED	VCO REF	REFERENCE OSCILLATER
STEREO [H]	STEREO ①	VD. IN	VIDEO SIGNAL INPUT
STEREO [L]	STEREO ①	VD. OUT	VIDEO SIGNAL OUTPUT
STOP. PO	STOP POSITION	VIDEO EE [L]	VIDEO EE ①
STOP/5V	STOP POSITION/5V	VIDEO IN	VIDEO SIGNAL INPUT
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT	VIDEO OUT	VIDEO SIGNAL OUTPUT
STOP1/PAL:ST	STOP1 POSITION/PAL	VM	MOTOR VOLTAGE
STOP2. PO	STOP 2 POSITION	VM DOWN [L]	MOTOR VOLTAGE DOWN ①
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW	VSS	VERTICAL SYNC SIGNAL
STREO [H]	STEREO ①	VTR [H]	VTR ①
SUB BIAS	SUB BIAS	VTR. 12V	VTR 12V
SUB. SW	SUB SW	X IN	OSCILLATOR INPUT
SVHS CAS [L]	S-VHS CASSETTE ①	X OUT	OSCILLATOR OUTPUT
SW. 5. DET	SW 5V DETECT		
SYNC [L]	SYNC ①		

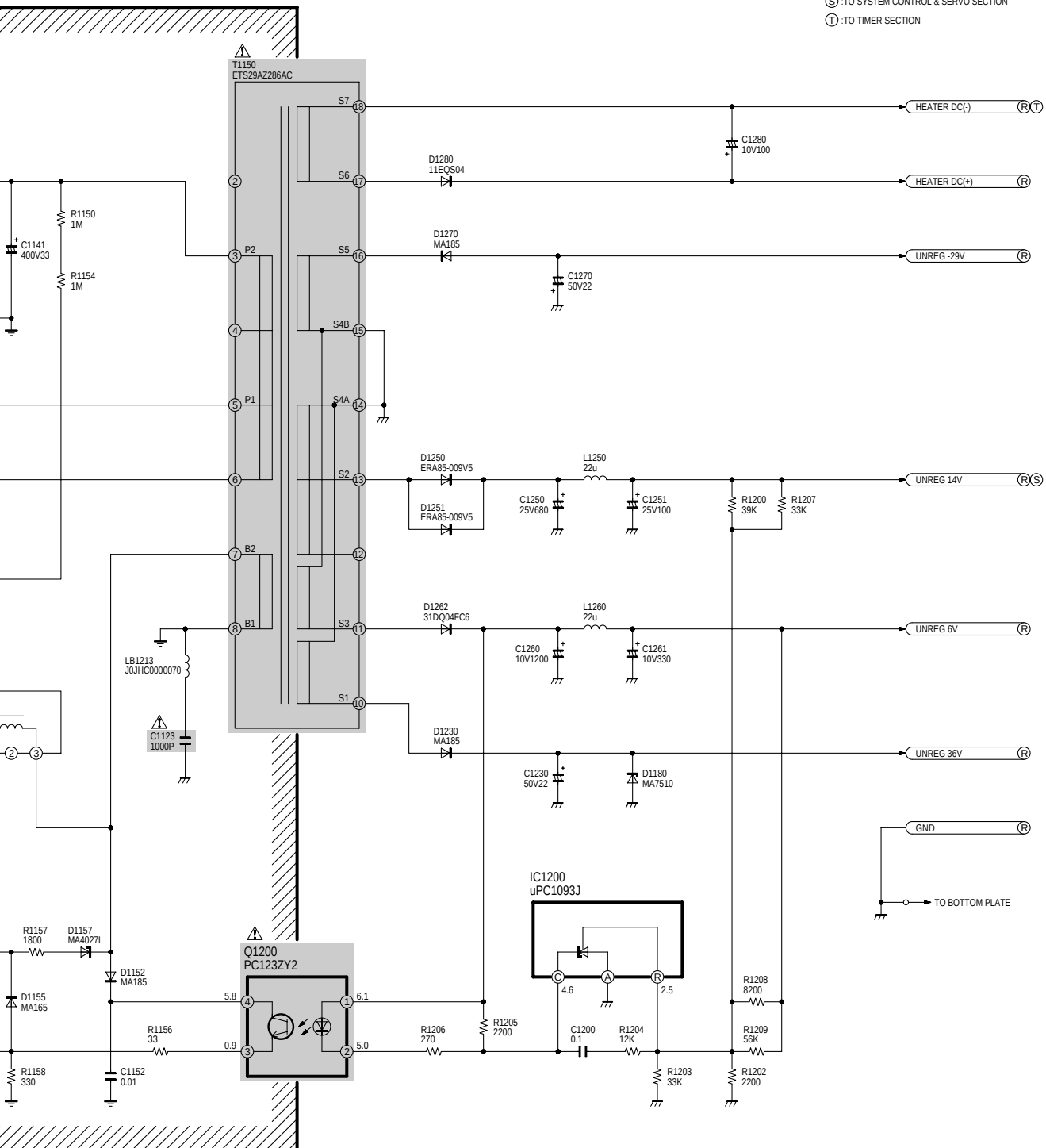
8 SCHEMATIC DIAGRAMS

8.1. POWER TRANSFORMER SECTION IN MAIN SCHEMATIC DIAGRAM



SH THE PRIMARY
AIR AND SERVICE OF

- Ⓡ :TO POWER SUPPLY/RF SECTION
- Ⓢ :TO SYSTEM CONTROL & SERVO SECTION
- Ⓣ :TO TIMER SECTION



IM ON THE POWER TRANSFORMER
NG POINT AS FOLLOWS.

E IS SHOWN THE VOLTAGE WHEN

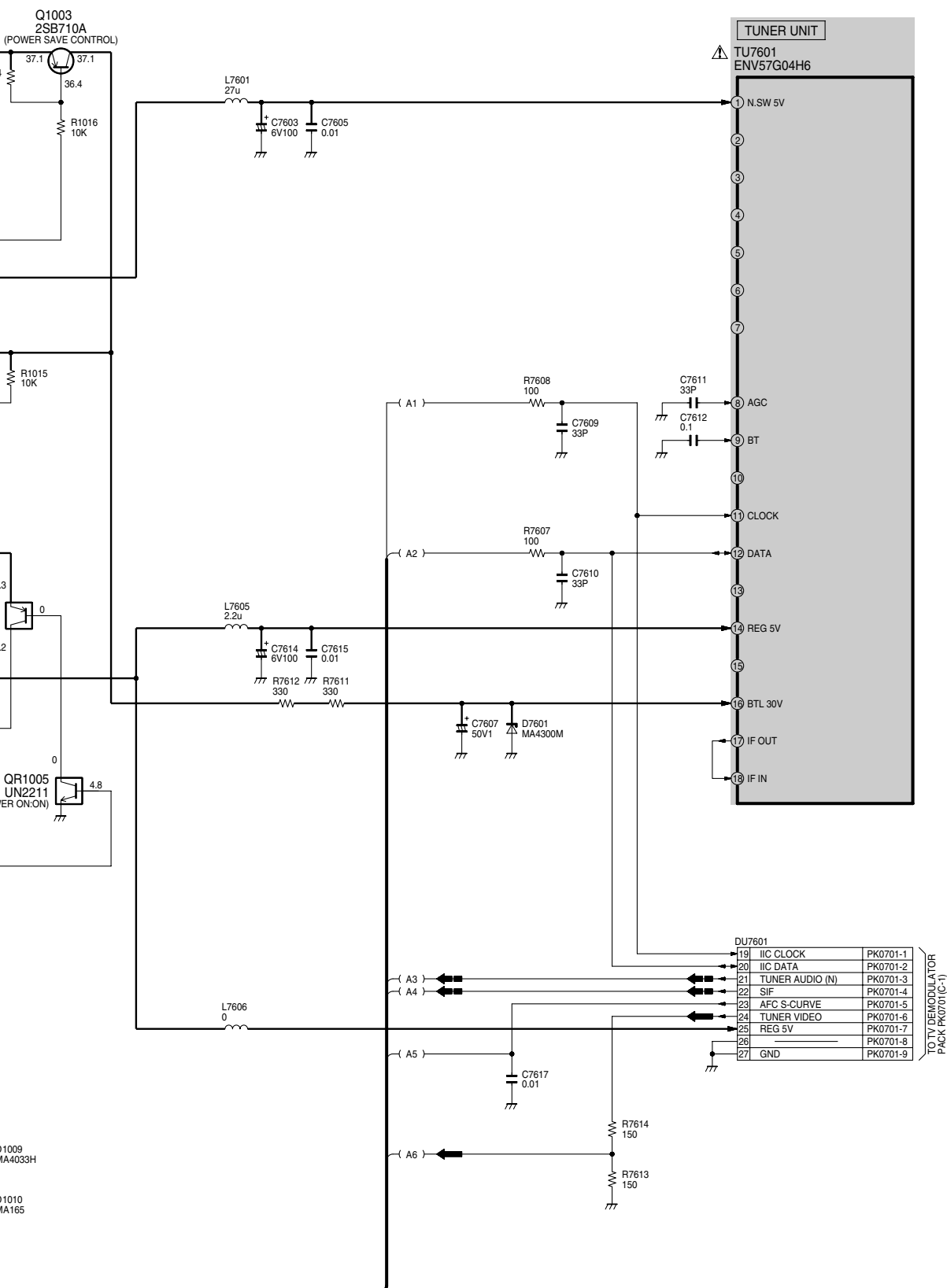
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR
ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:THE MEASURMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-SV120EF
POWER TRANSFORMER
SECTION SCHEMATIC DIAGRAM

5 6 7 8 9 10



Q1003
2SB710A
(POWER SAVE CONTROL)

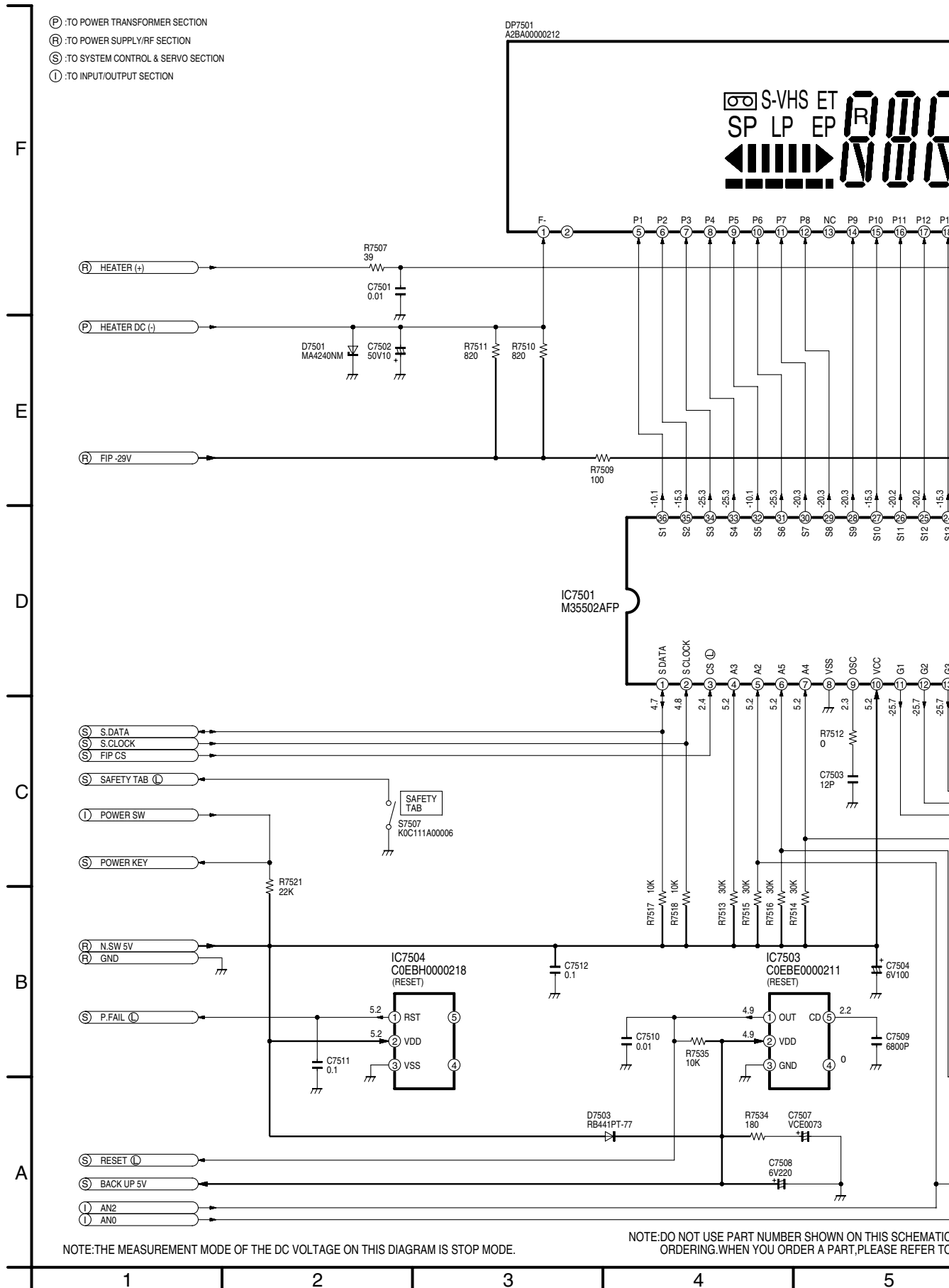


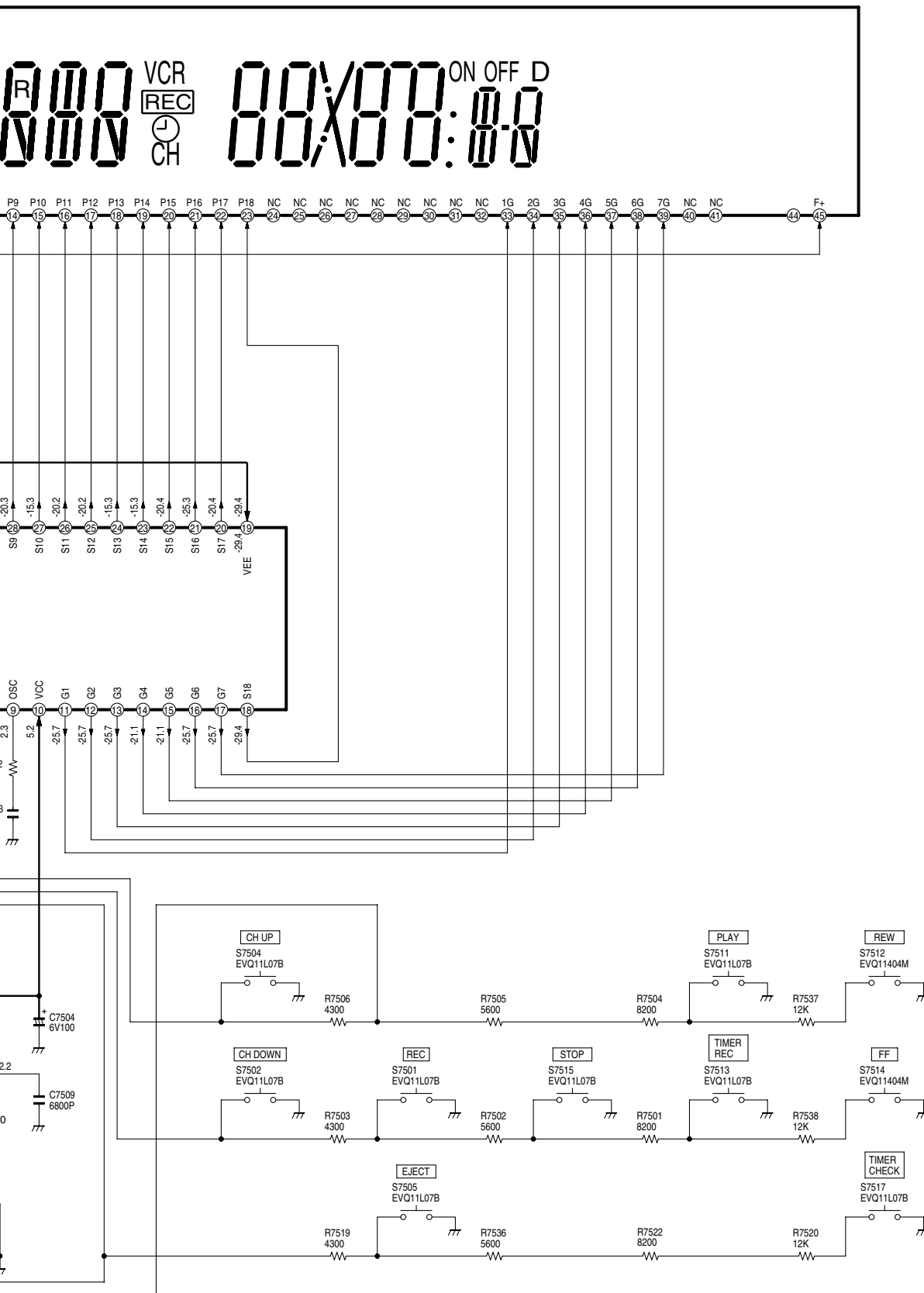
IN THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-SV120EF
POWER SUPPLY/RF
SECTION SCHEMATIC DIAGRAM

8.3. TIMER SECTION IN MAIN SCHEMATIC DIAGRAM



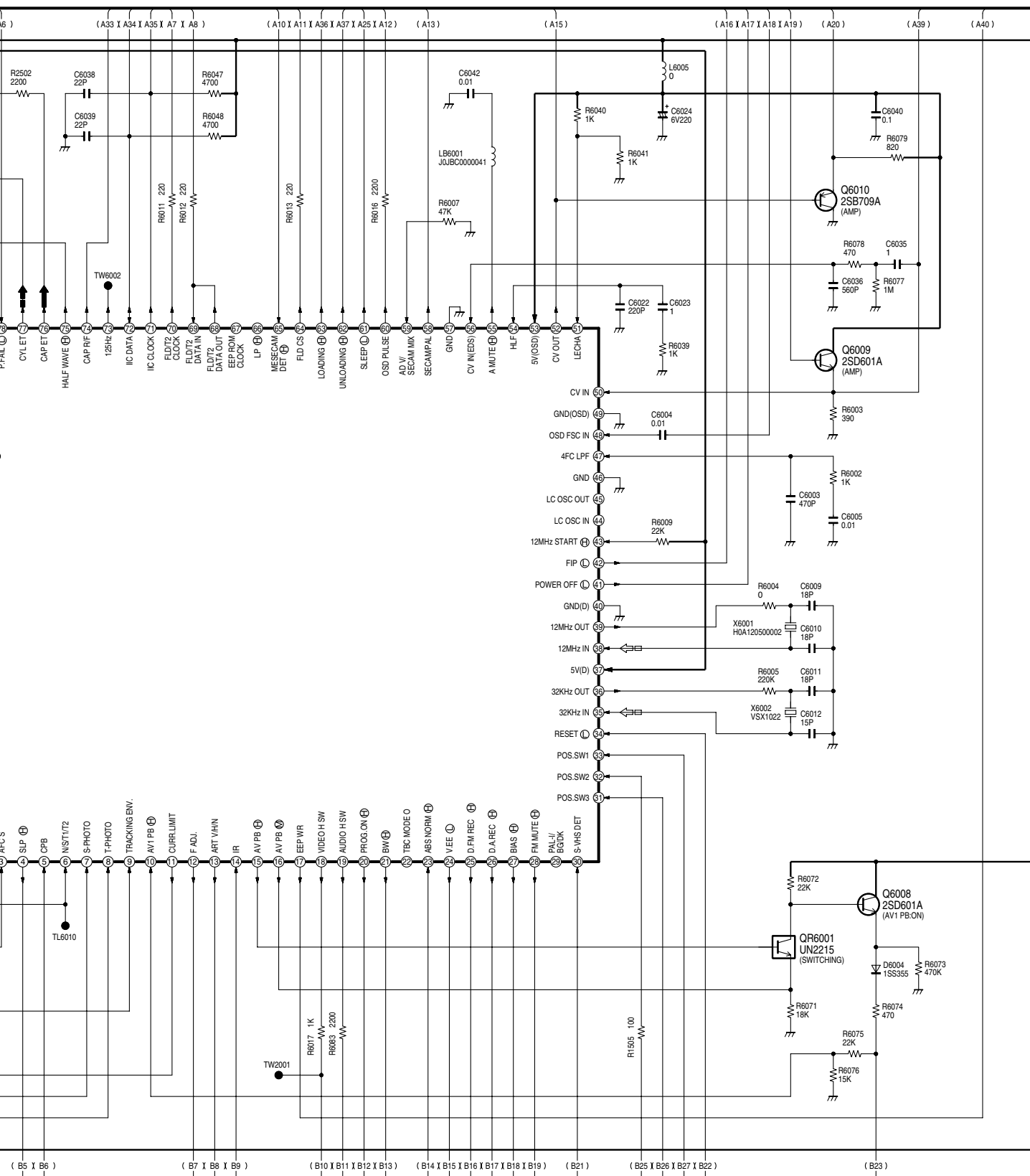




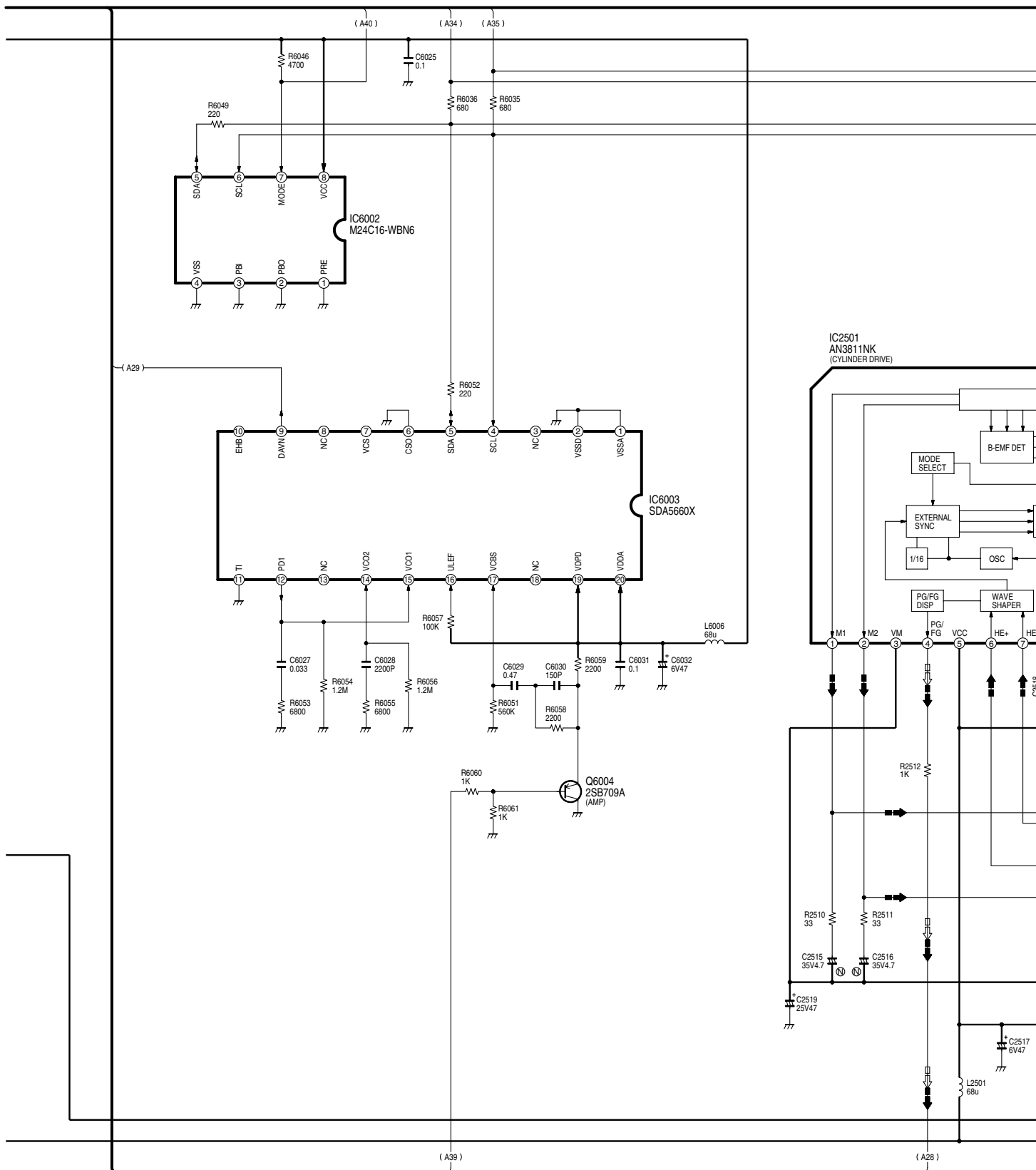
HASE LOOP

CYLINDER SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP



NV-SV120EF
SYSTEM CONTROL & SERVO SECTION SCHEMATIC DIAGRAM



NV-SV120EF
SYSTEM CONTROL & SERVO SECTION SCHEMATIC DIAGRAM

12

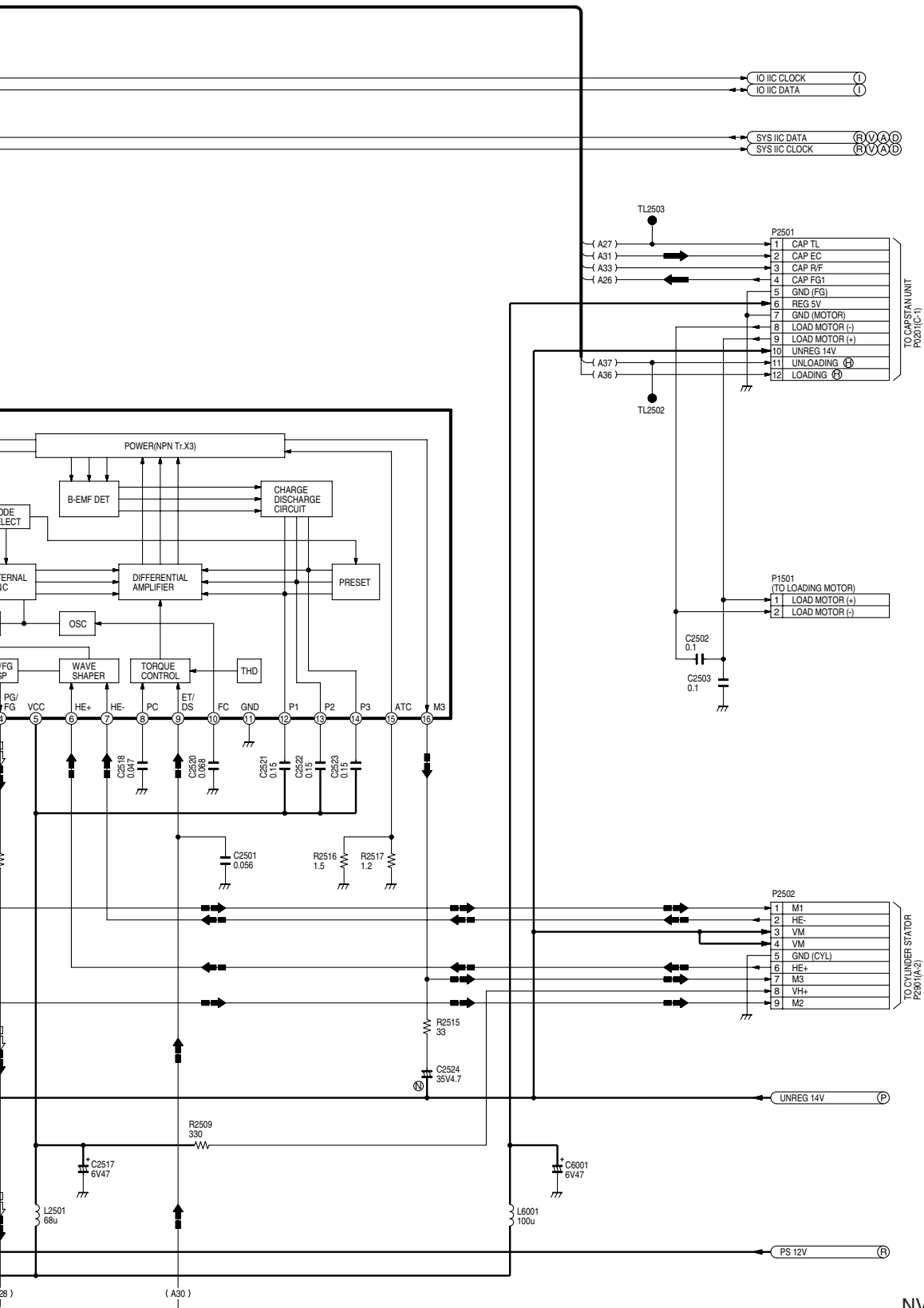
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14

15

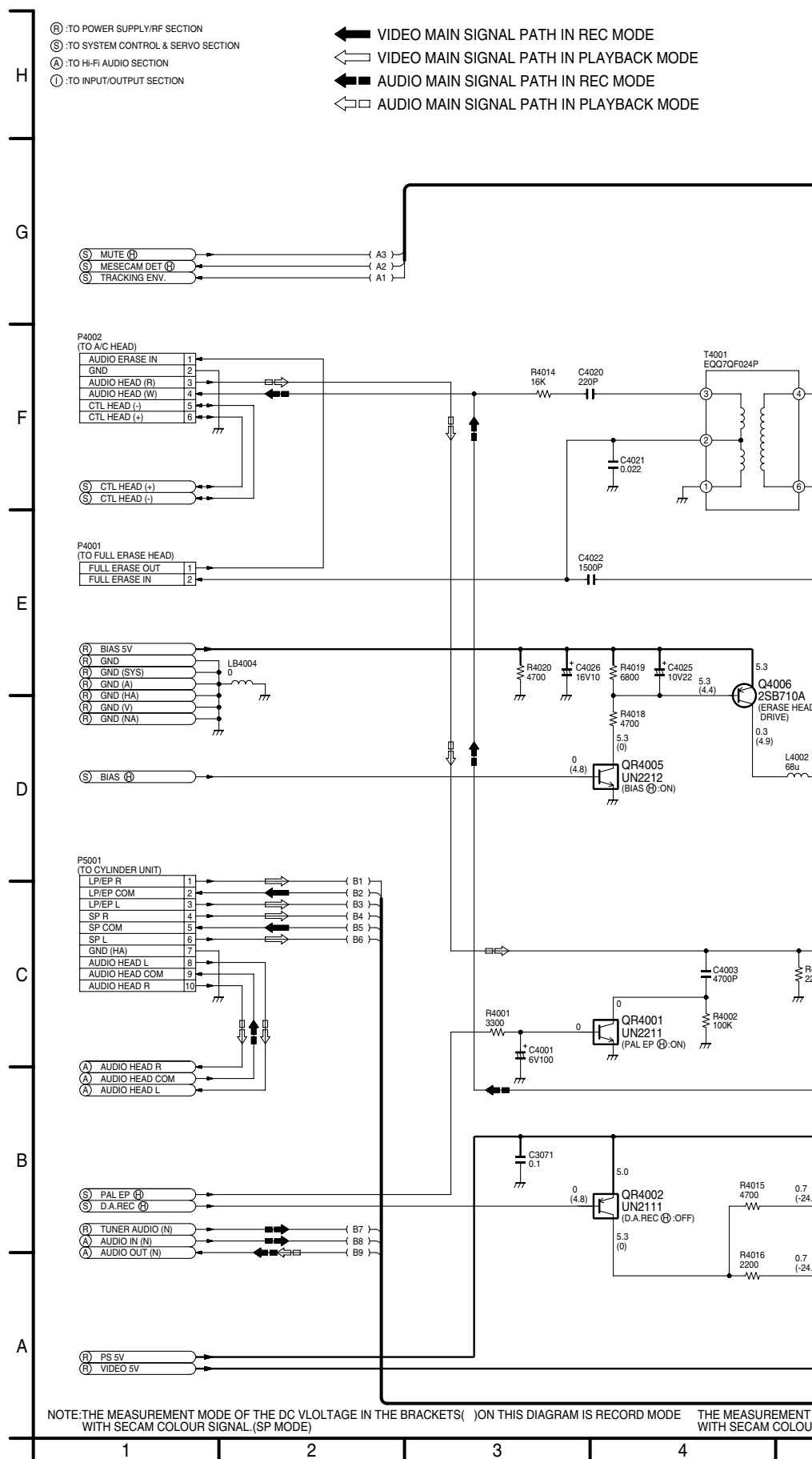
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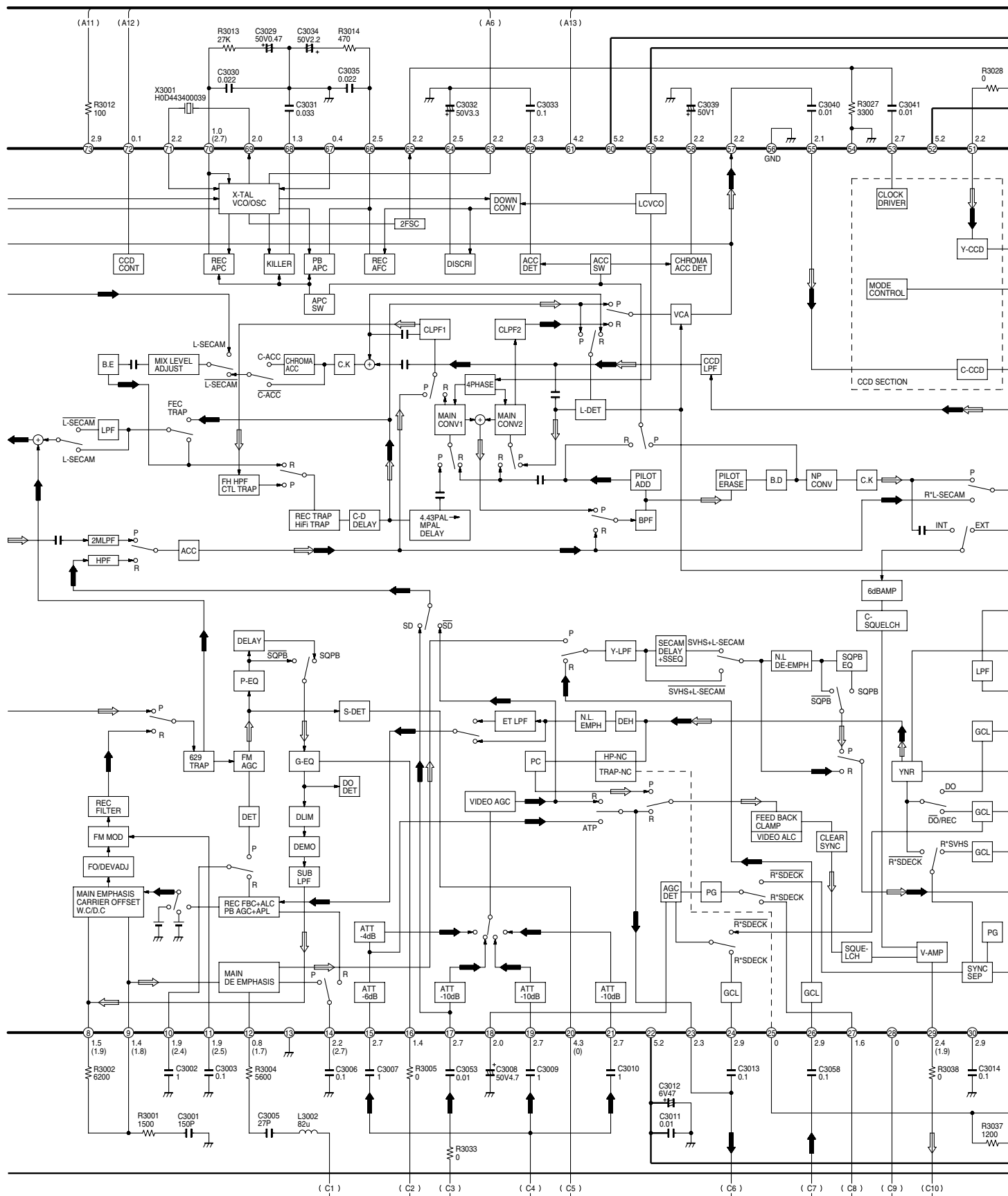
17



NV-SV120EF
 SYSTEM CONTROL & SERVO
 SECTION SCHEMATIC DIAGRAM

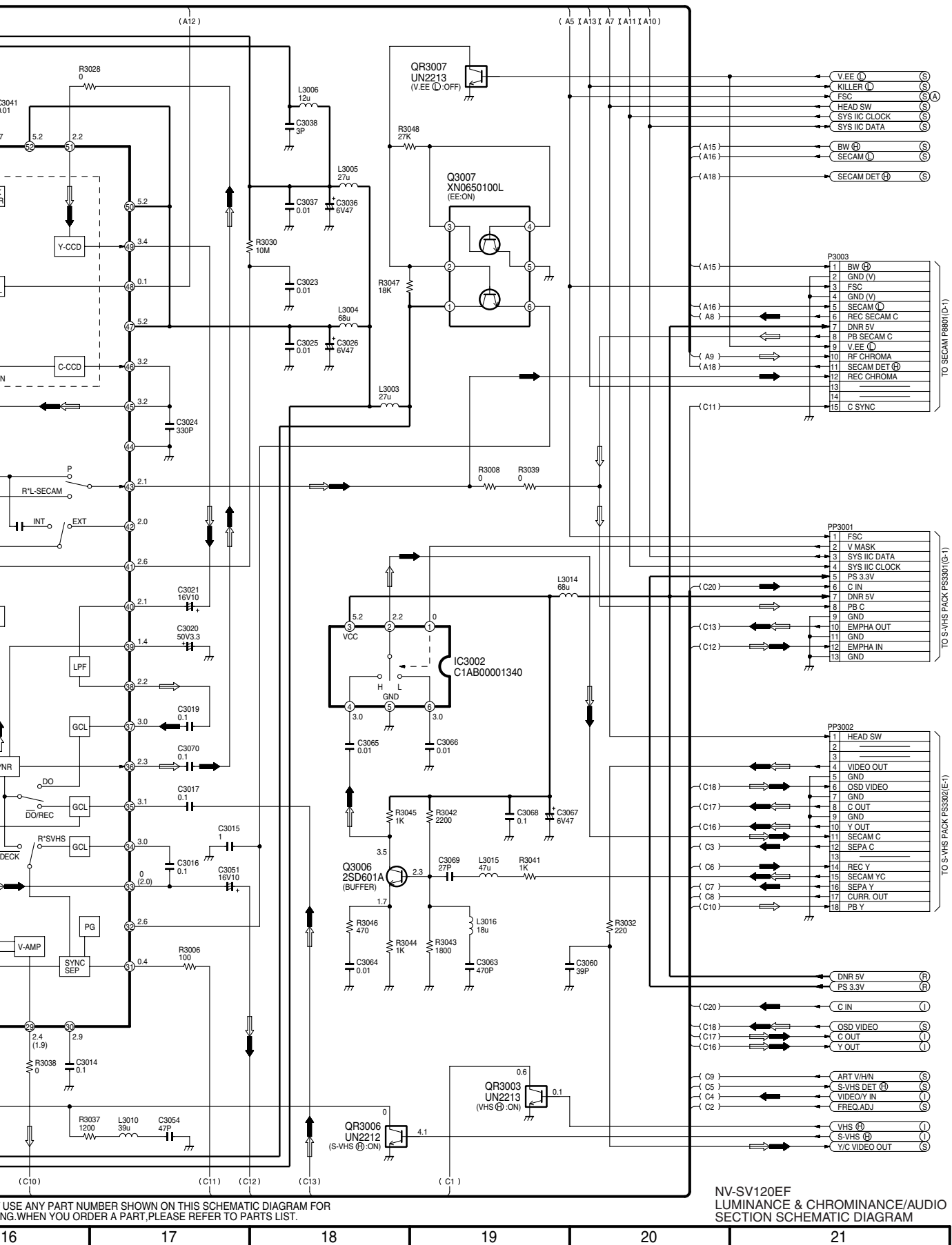
8.5. LUMINANCE & CHROMINANCE/ AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM



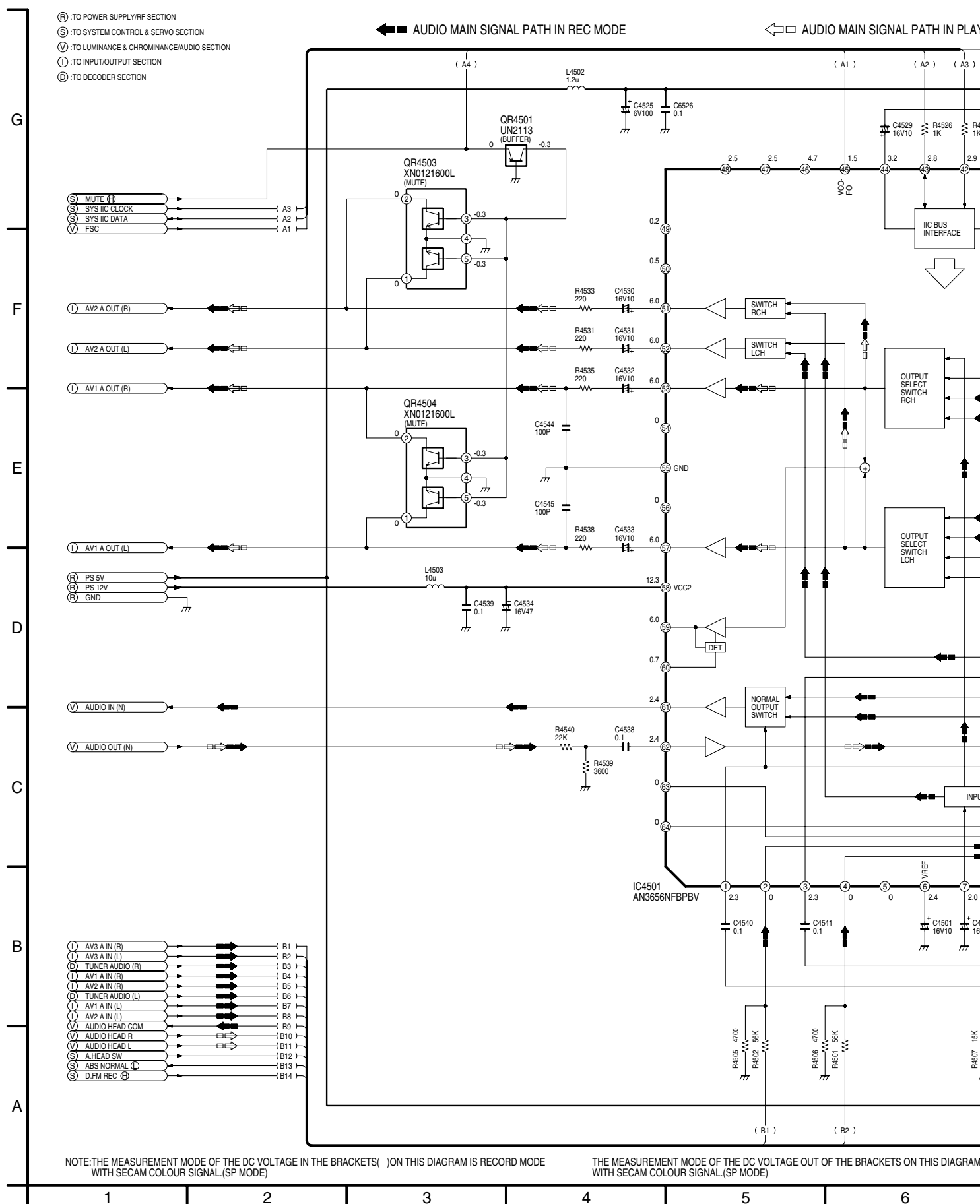


NV-SV120EF
LUMINANCE & CHROMINANCE/AUDIO SECTION SCHEMATIC DIAGRAM

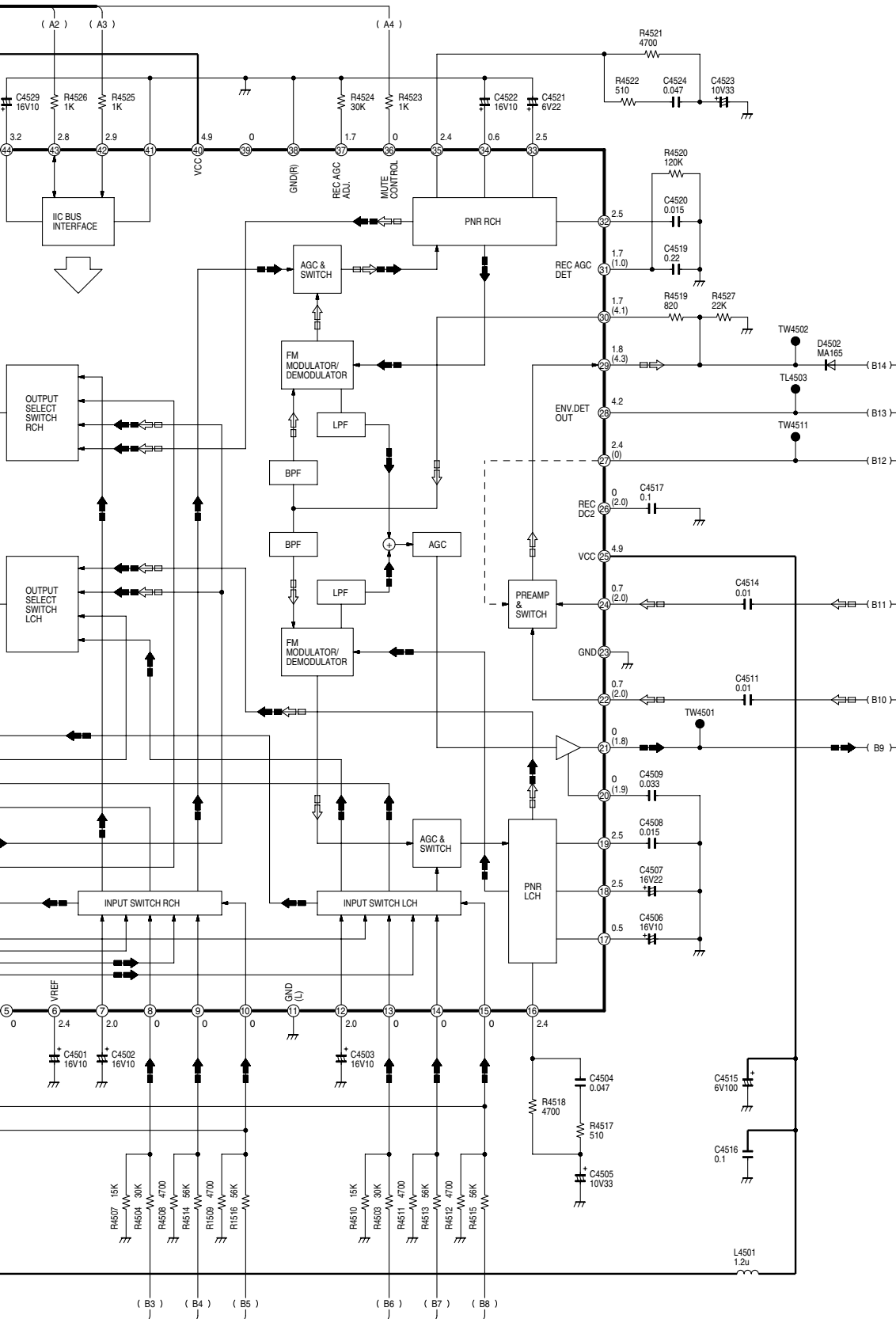
NOTE:DO NOT USE ANY PART NUMB
ORDERING.WHEN YOU ORDEF



8.6. Hi-Fi AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM



SIGNAL PATH IN PLAYBACK MODE

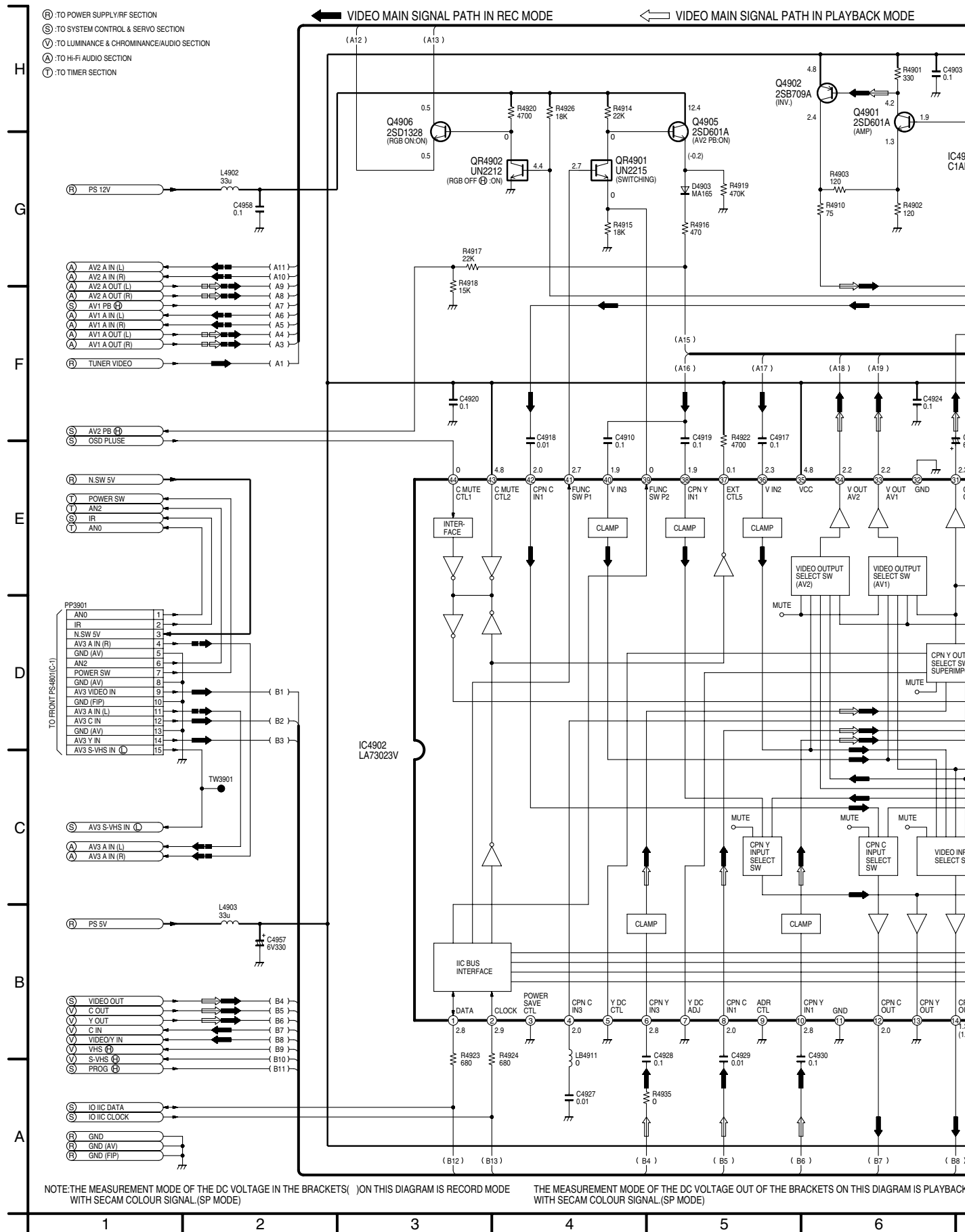


KEYS ON THIS DIAGRAM IS PLAYBACK MODE

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NV-SV120EF
Hi-Fi AUDIO SECTION SCHEMATIC DIAGRAM

8.7. INPUT/ OUTPUT SECTION IN MAIN SCHEMATIC DIAGRAM



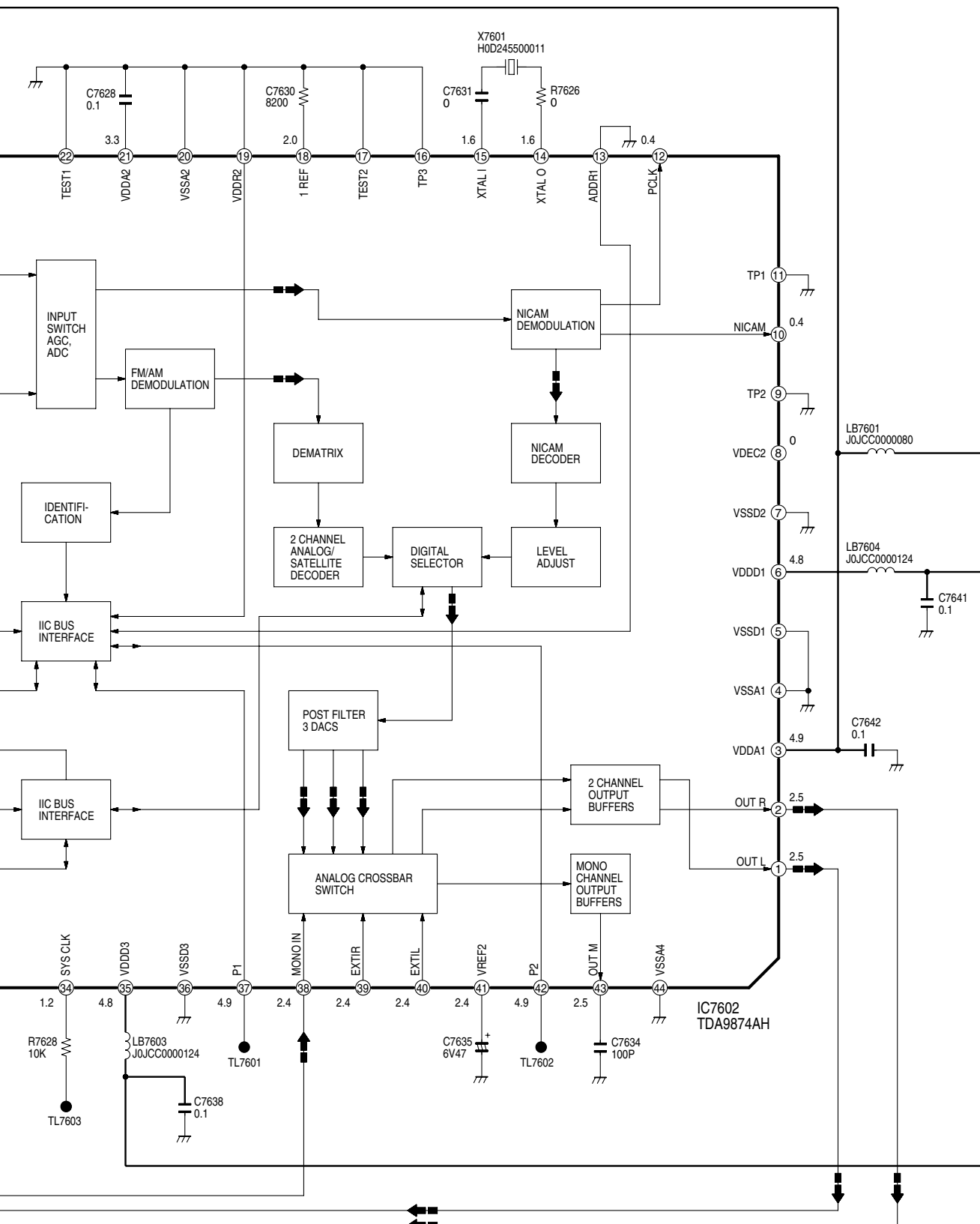


NOTE:DO NOT ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART.PLEASE REFER TO PARTS LIST.





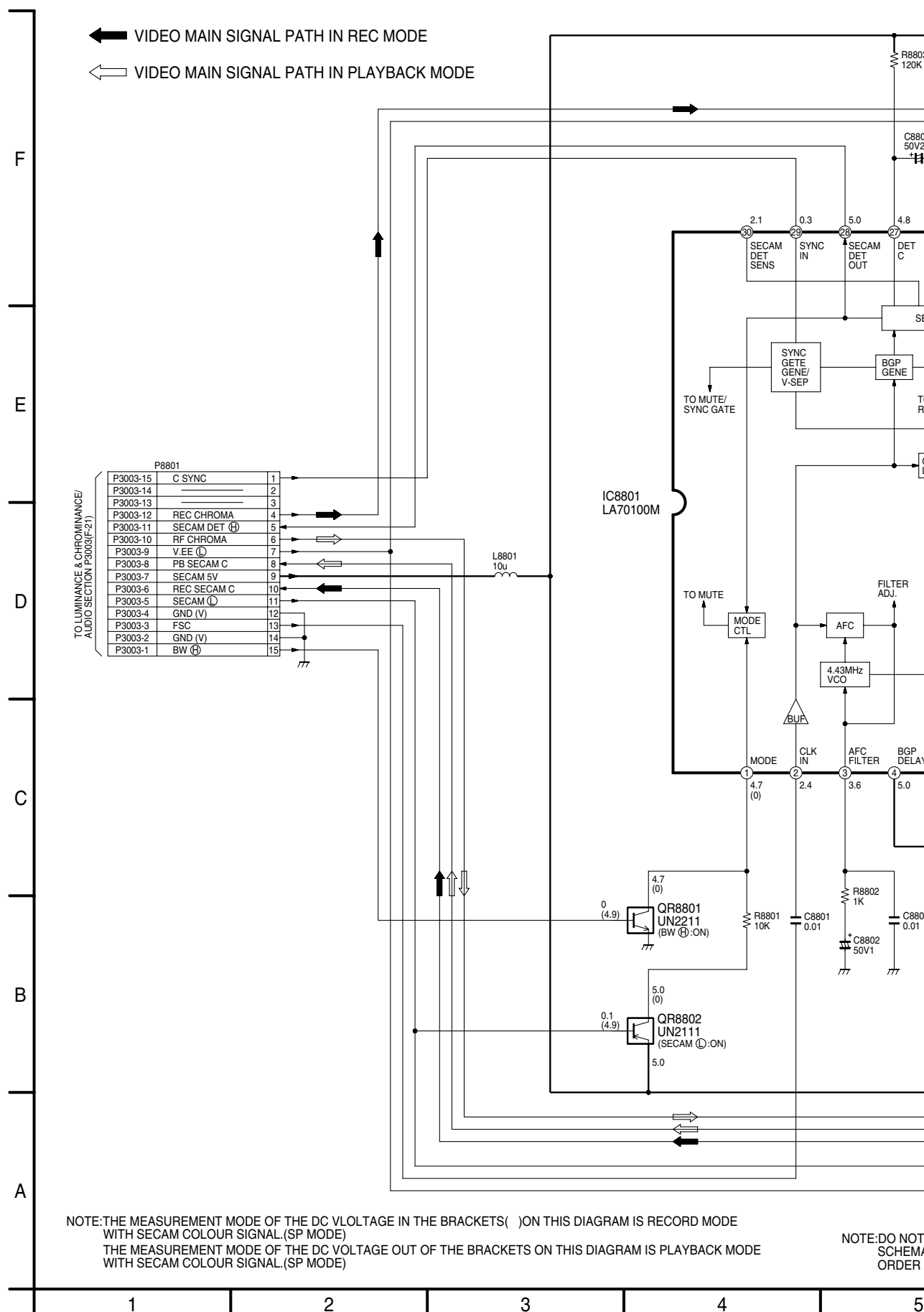
← ■ AUDIO SIGNAL PATH



COMPONENTS SHOWN ON THIS SCHEMATIC DIAGRAM FOR REFERENCE ONLY. FOR A PART, PLEASE REFER TO PARTS LIST.

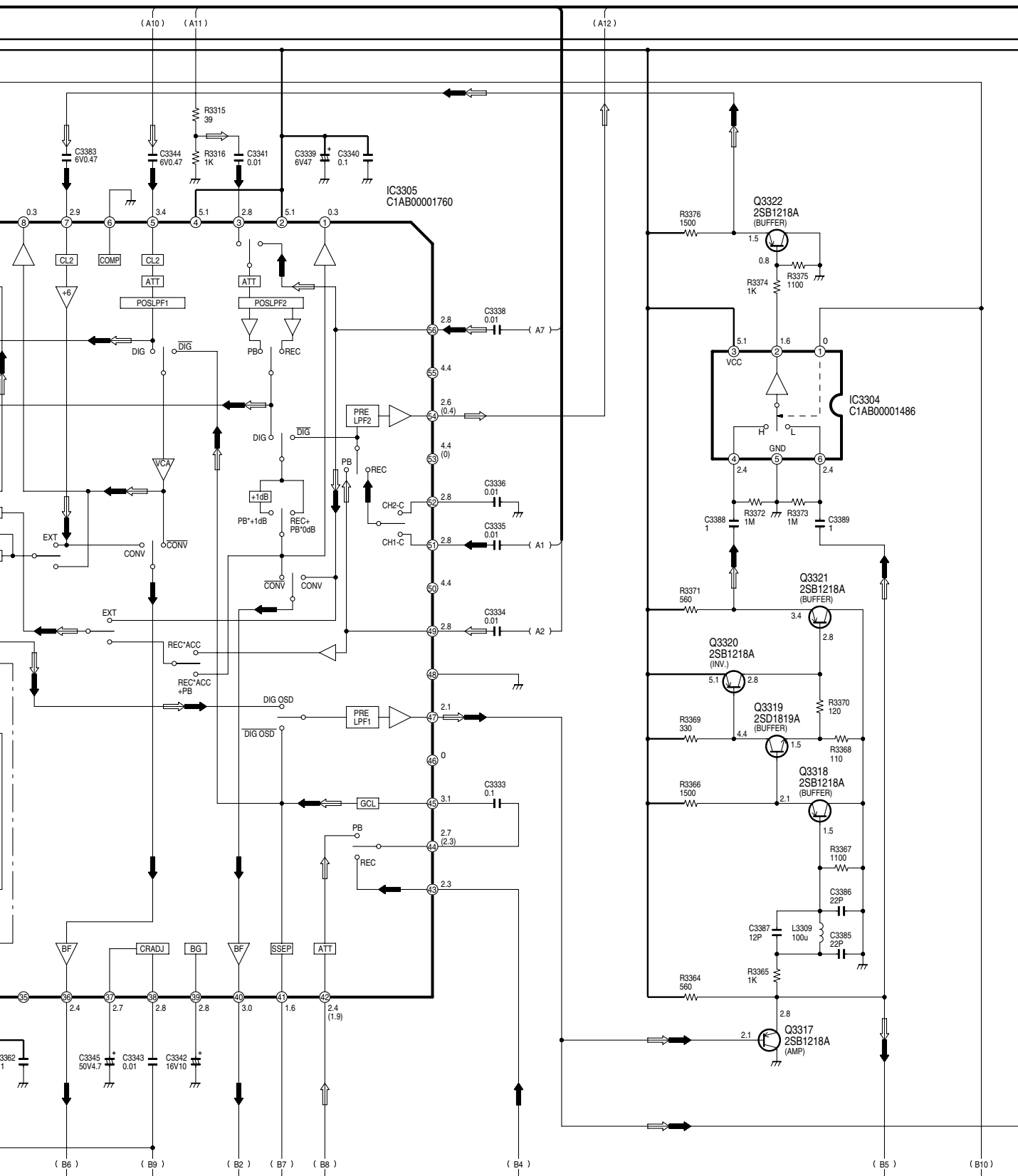
NV-SV120EF
DECODER SECTION SCHEMATIC DIAGRAM

8.9. SECAM SCHEMATIC DIAGRAM





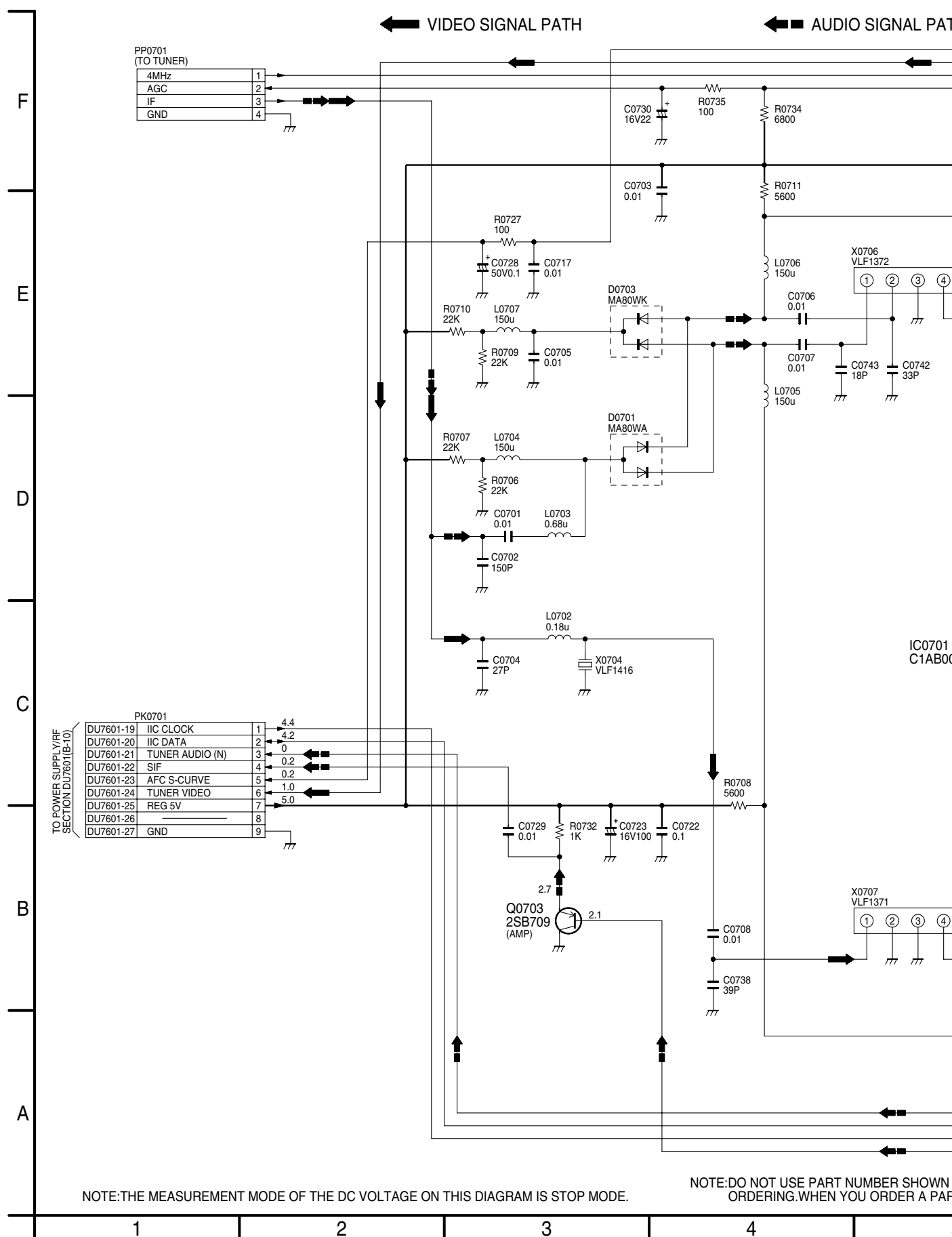
LAYBACK MODE



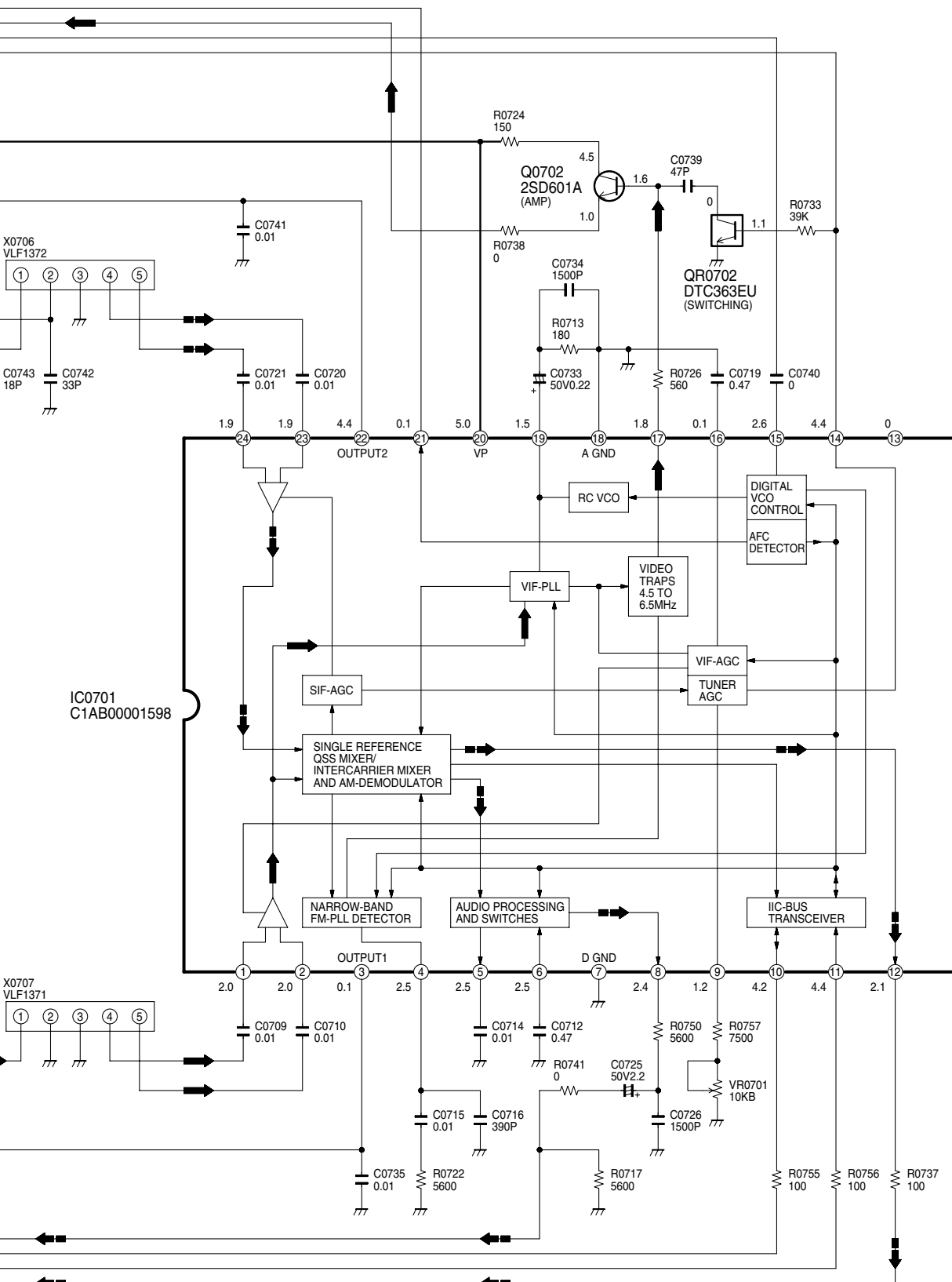
DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE (DE)

NV-SV120EF
S-VHS PACK SCHEMATIC DIAGRAM

8.11. TV DEMODULATOR PACK SCHEMATIC DIAGRAM



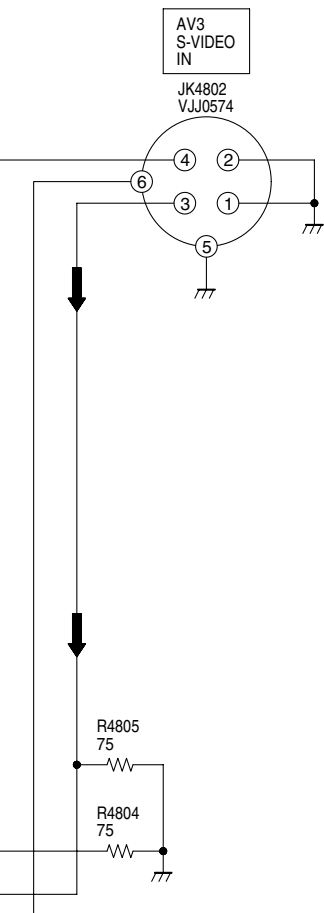
VIDEO SIGNAL PATH



NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR
YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NV-SV120EF
TV DEMODULATOR PACK SCHEMATIC DIAGRAM





K

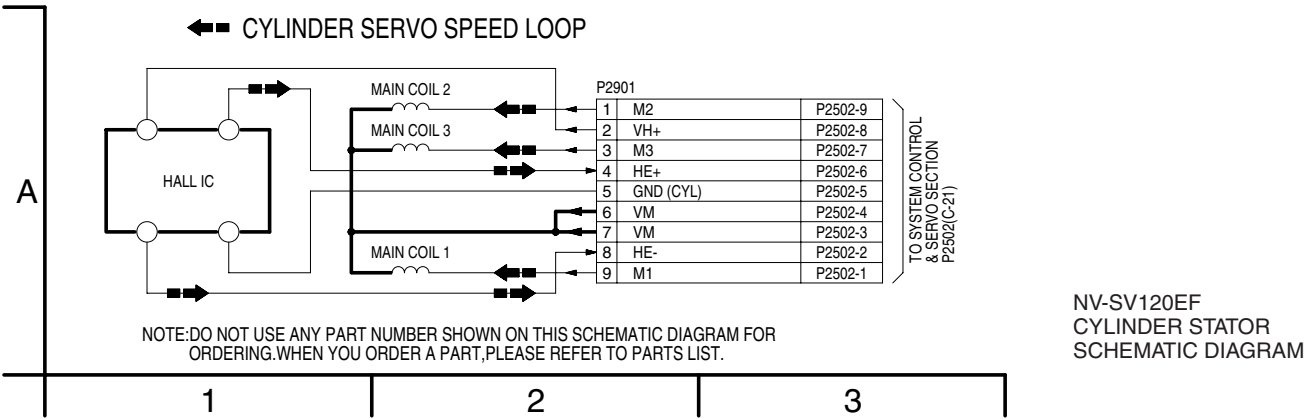
NT

K

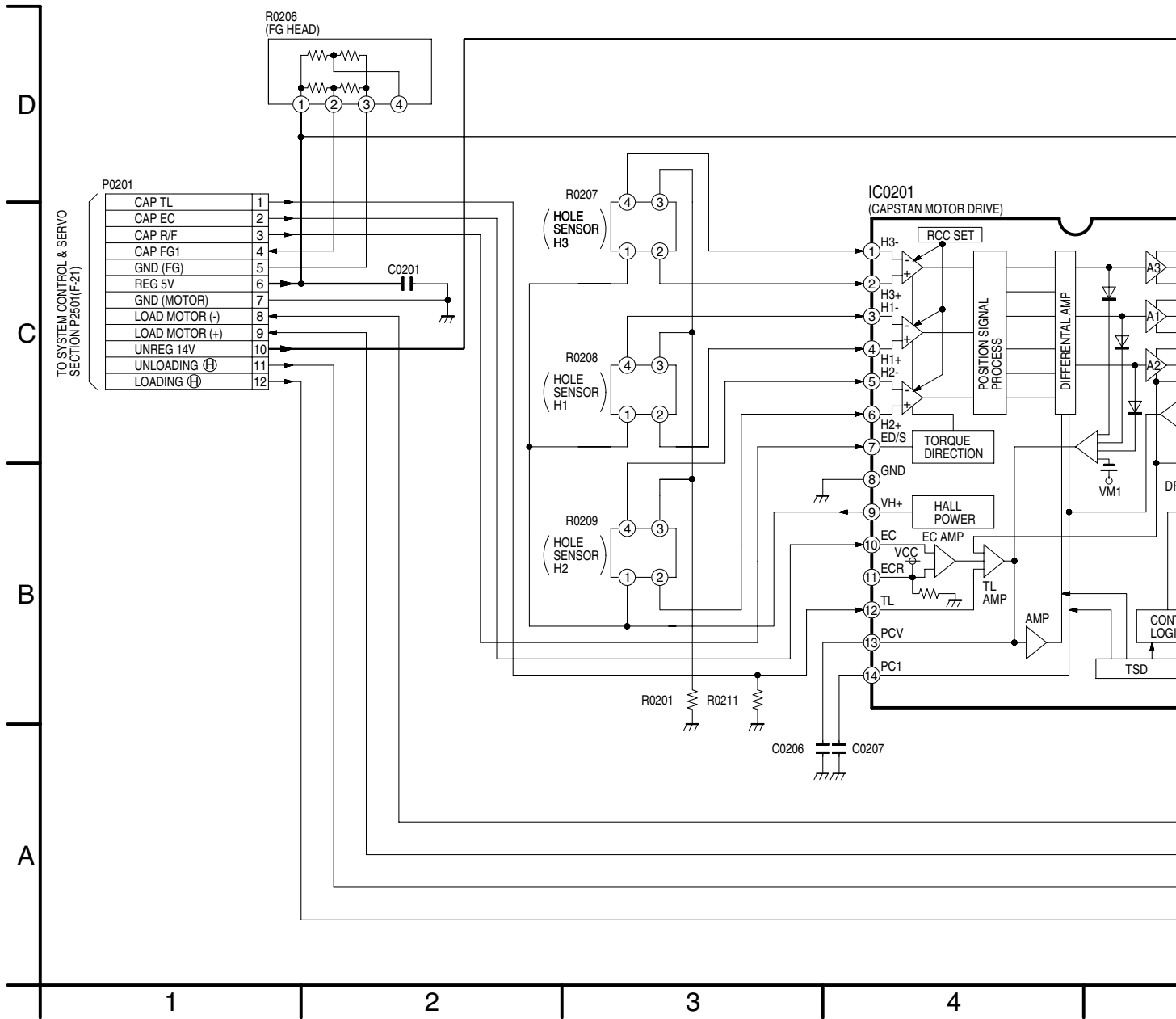
NV-SV120EF
FRONT SCHEMATIC DIAGRAM

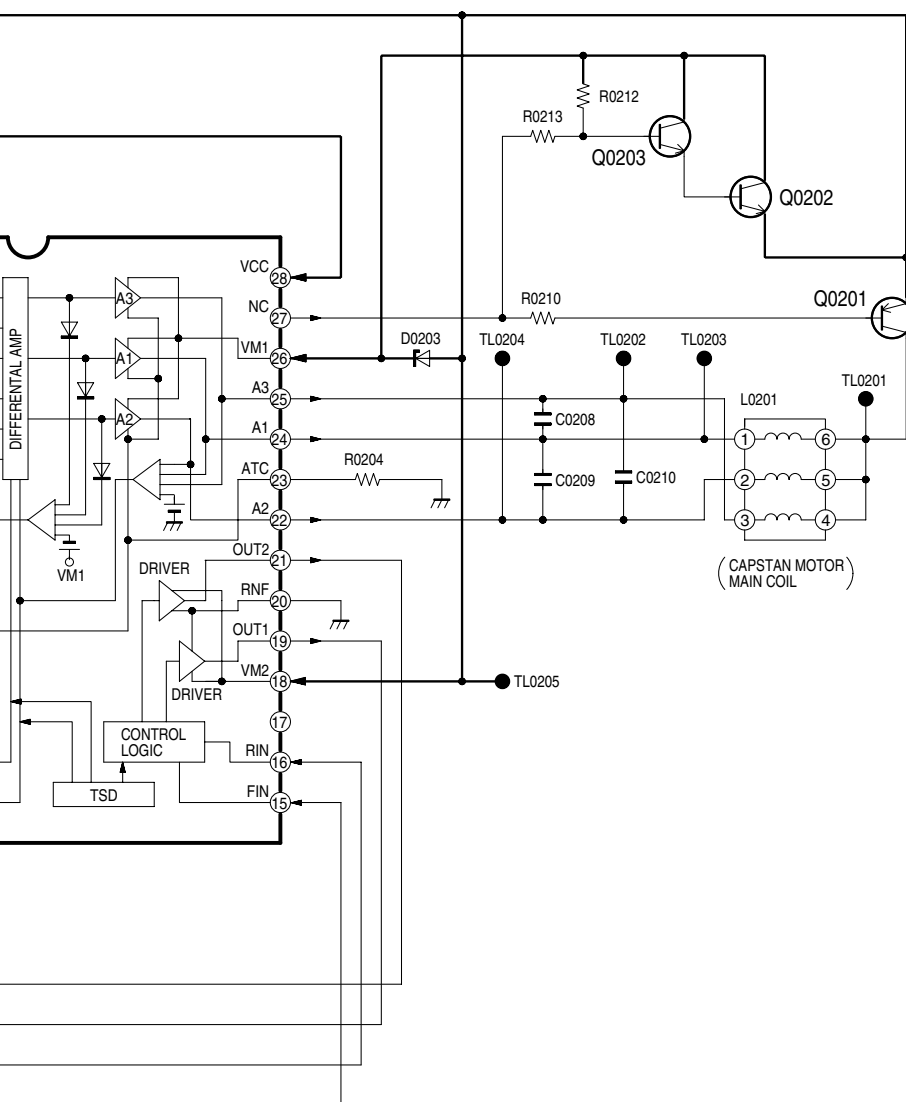
5

8.13. CYLINDER STATOR UNIT SCHEMATIC DIAGRAM



8.14. CAPSTAN UNIT SCHEMATIC DIAGRAM



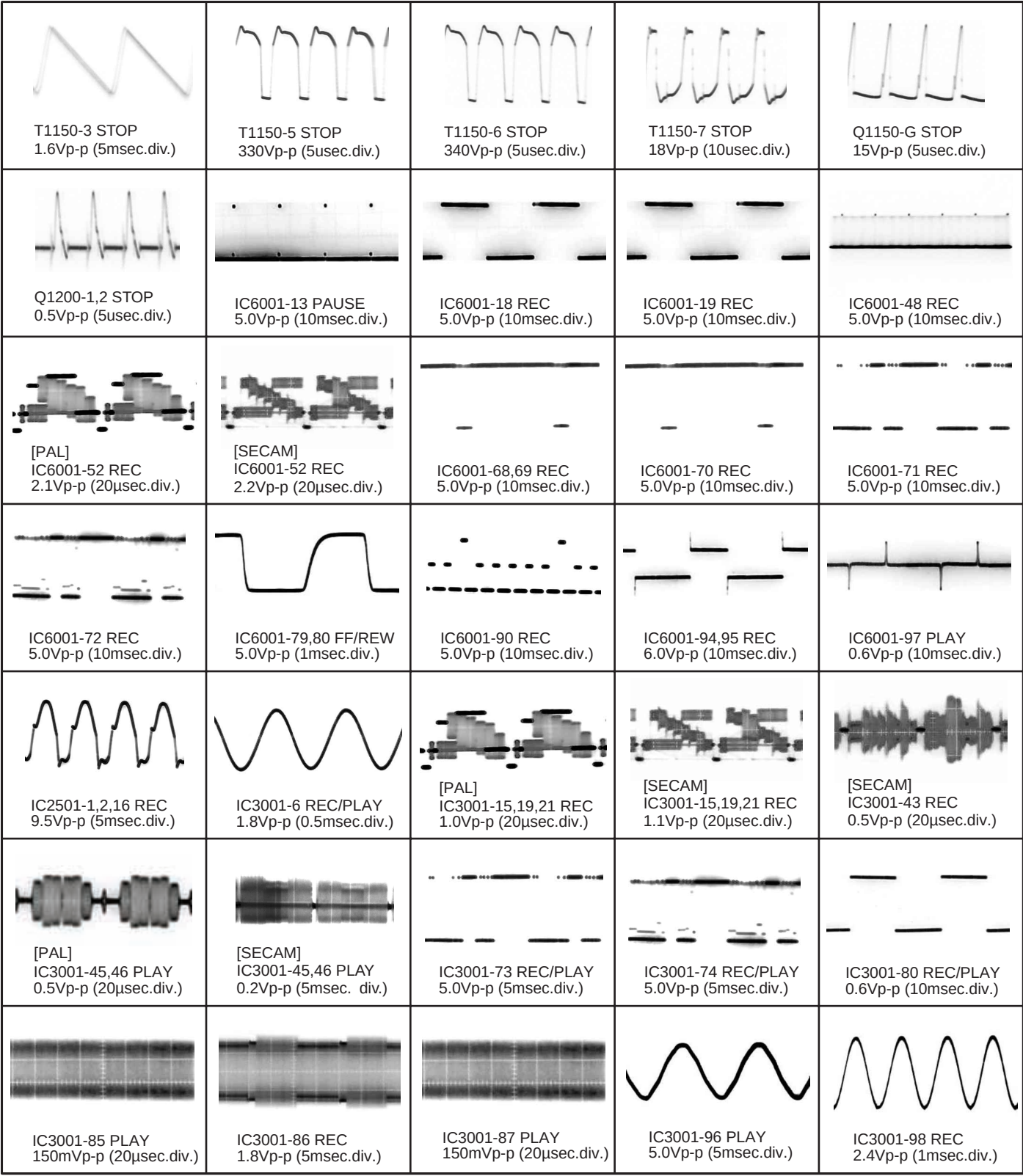


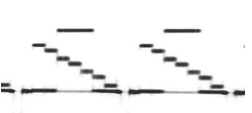
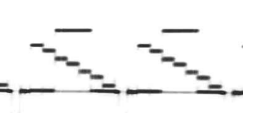
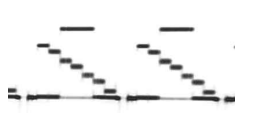
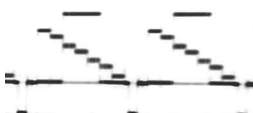
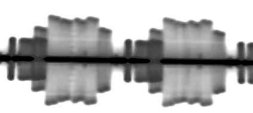
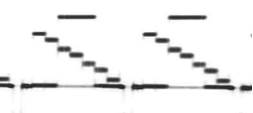
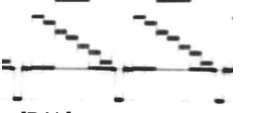
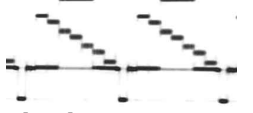
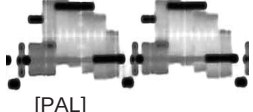
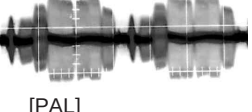
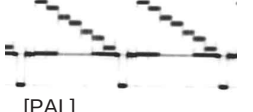
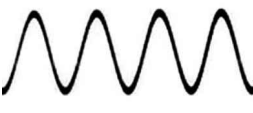
NV-SV120EF
CAPSTAN UNIT SCHEMATIC DIAGRAM

5

6

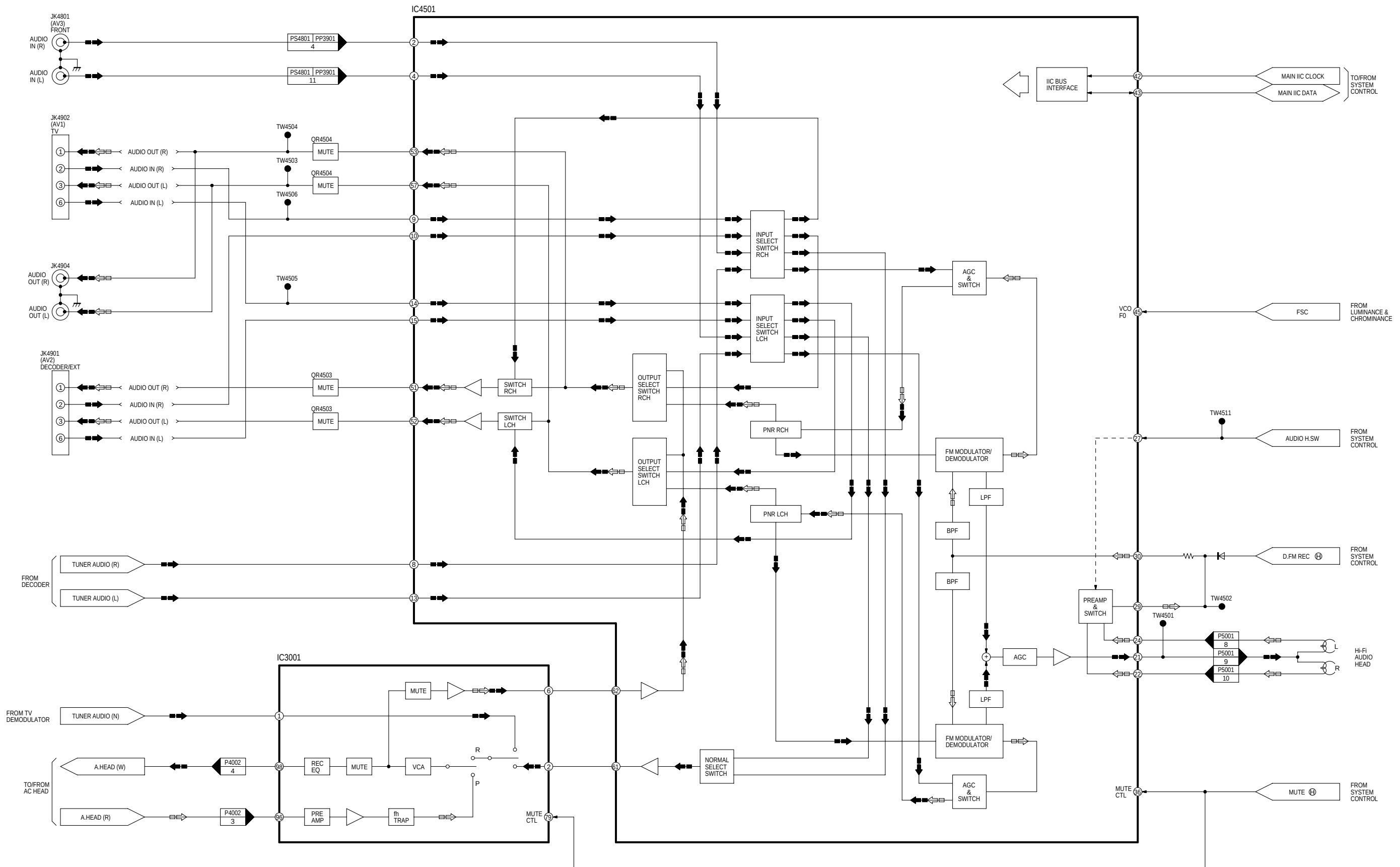
7



 [PAL] PP3001-8 PLAY 0.8Vp-p (20µsec.div.)	 [SECAM] PP3001-8 PLAY 0.4Vp-p (20µsec.div.)	 [PAL] PP3001-10 REC/PLAY 0.5Vp-p (20µsec.div.)	 [PAL] PP3001-12 REC/PLAY 0.5Vp-p (20µsec.div.)	 [PAL] PP3002-4 REC/PLAY 2.0Vp-p (20µsec.div.)
 [PAL] PP3002-6 REC/PLAY 2.0Vp-p (20µsec.div.)	 [PAL] PP3002-8 REC/PLAY 1.6Vp-p (20µsec.div.)	 [SECAM] PP3002-8 REC/PLAY 1.2Vp-p (20µsec.div.)	 [PAL] PP3002-10 REC/PLAY 2.0Vp-p (20µsec.div.)	 [PAL] PP3002-12 REC 0.8Vp-p (20µsec.div.)
 [SECAM] PP3002-12 REC 0.6Vp-p (20µsec.div.)	 [PAL] PP3002-14 REC 0.5Vp-p (20µsec.div.)	 [SECAM] PP3002-14 REC 0.5Vp-p (20µsec.div.)	 [PAL] PP3002-16 REC 0.5Vp-p (20µsec.div.)	 [PAL] PP3002-18 PLAY 2.2Vp-p (20µsec.div.)
 [PAL] IC3301-81 REC 0.8Vp-p (20µsec.div.)	 [PAL] IC3301-83 PLAY 0.7Vp-p (20µsec.div.)	 [PAL] IC3301-88 PLAY 0.4Vp-p (20µsec.div.)	 [PAL] IC3301-93 REC/PLAY 0.6Vp-p (5.0µsec.div.)	 [PAL] IC3301-95 REC/PLAY 1.2Vp-p (10µsec.div.)
 IC4501-9,14 REC 0.4Vp-p (5msec.div.)	 IC4501-53,57 REC/PLAY 1.4Vp-p (0.2msec.div.)	 [SECAM] IC8801-12 REC 0.5Vp-p (20µsec.div.)	 [SECAM] IC8801-14 PLAY 0.5Vp-p (20µsec.div.)	 [SECAM] IC8801-16 REC 0.5Vp-p (20µsec.div.)
 [SECAM] IC8801-18 PLAY 0.3Vp-p (20µsec.div.)				

◀■ MAIN SIGNAL PATH IN REC MODE

◀□ MAIN SIGNAL PATH IN PLAYBACK MODE



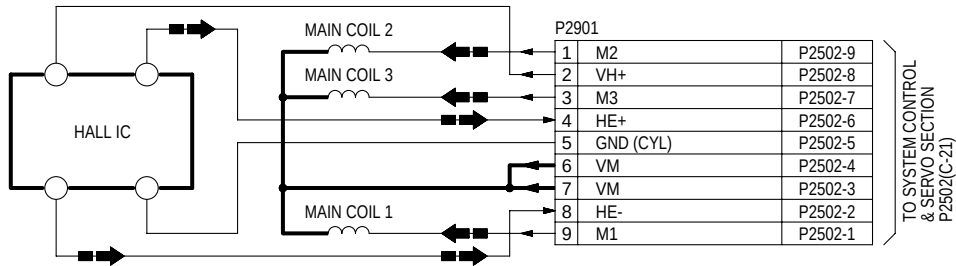
← VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE







← CYLINDER SERVO SPEED LOOP



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-SV120EF
CYLINDER STATOR
SCHEMATIC DIAGRAM

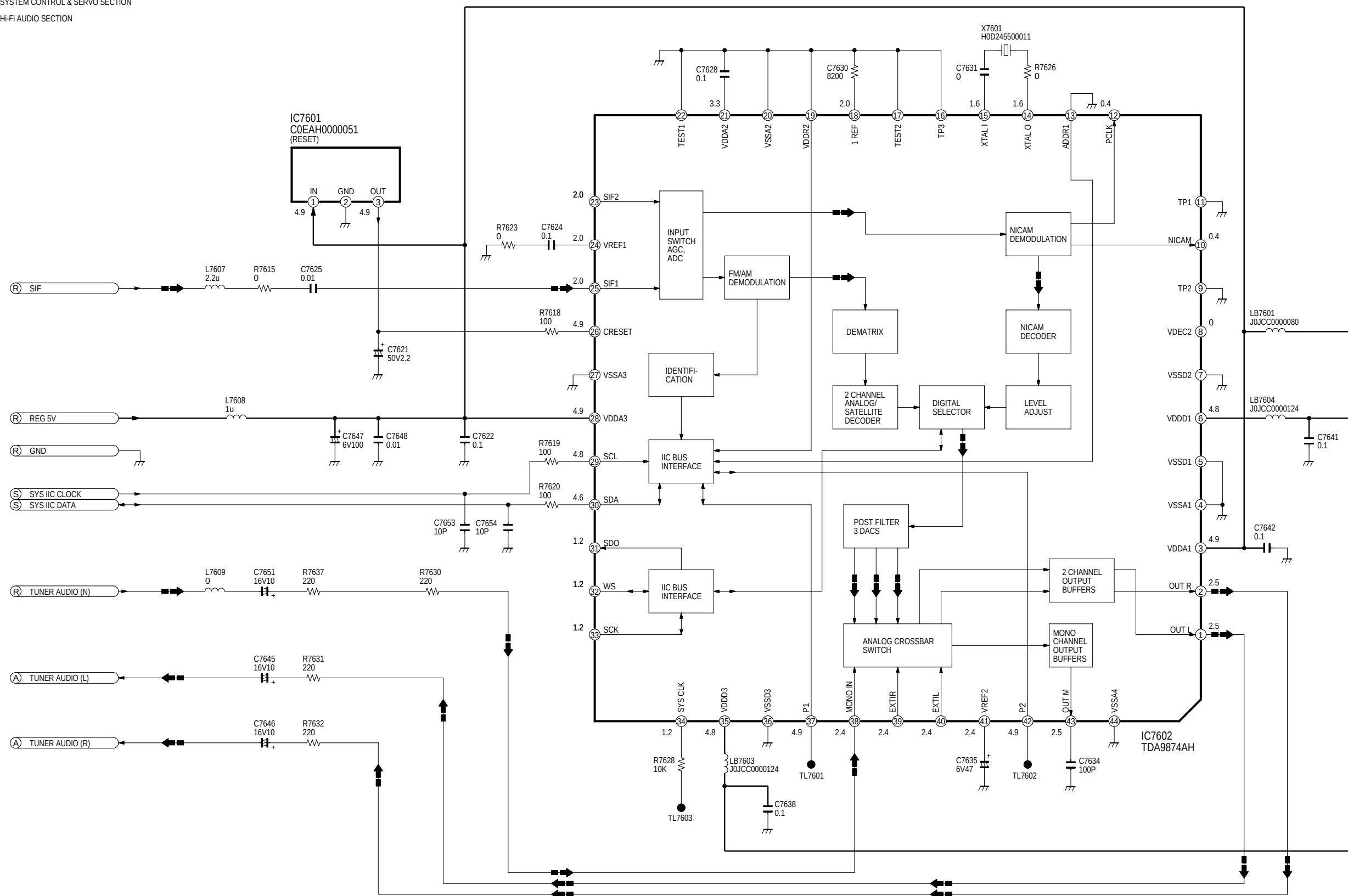
1

2

3

- (R) :TO POWER SUPPLY/RF SECTION
(S) :TO SYSTEM CONTROL & SERVO SECTION
(A) :TO HI-FI AUDIO SECTION

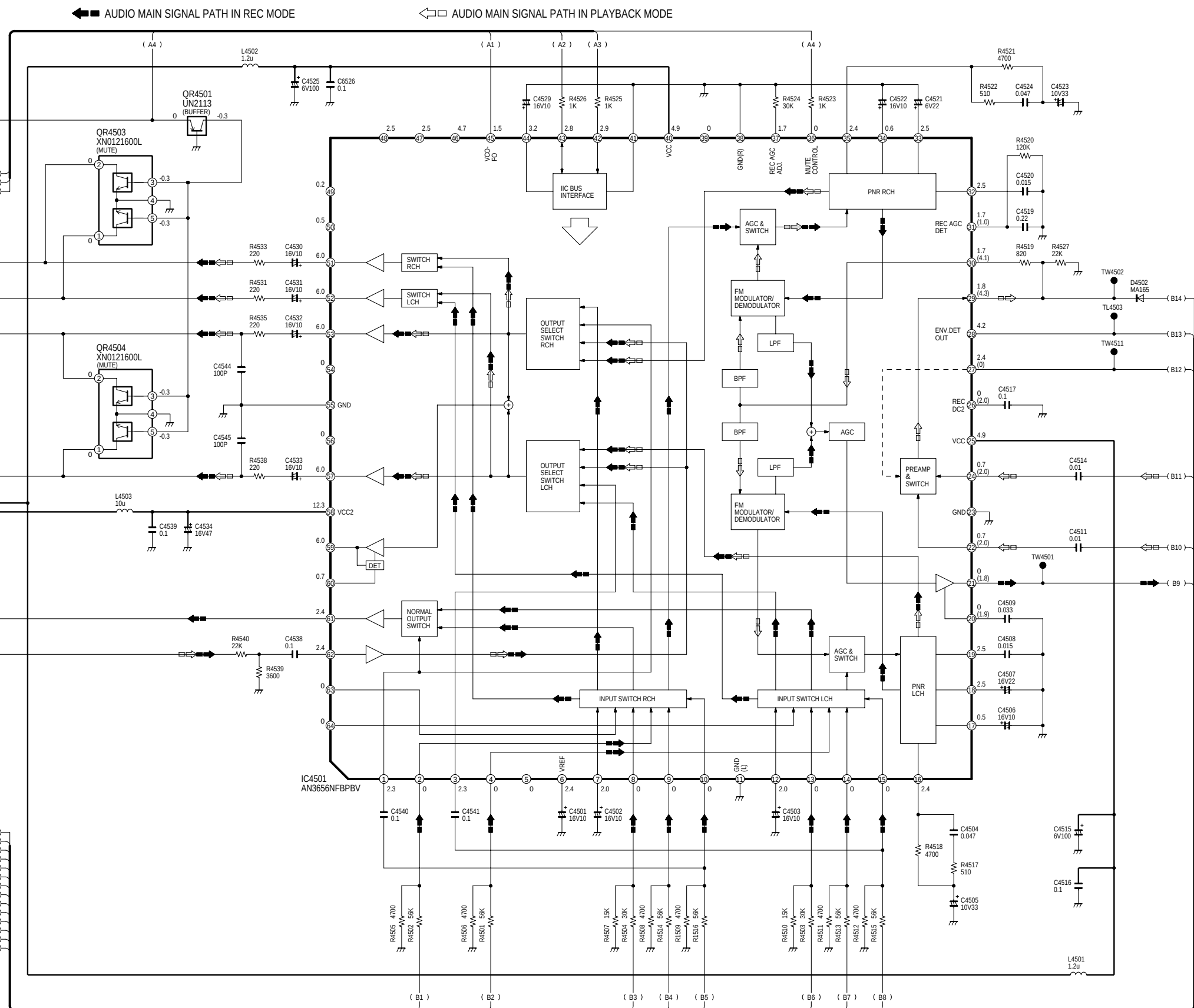
← AUDIO SIGNAL PATH



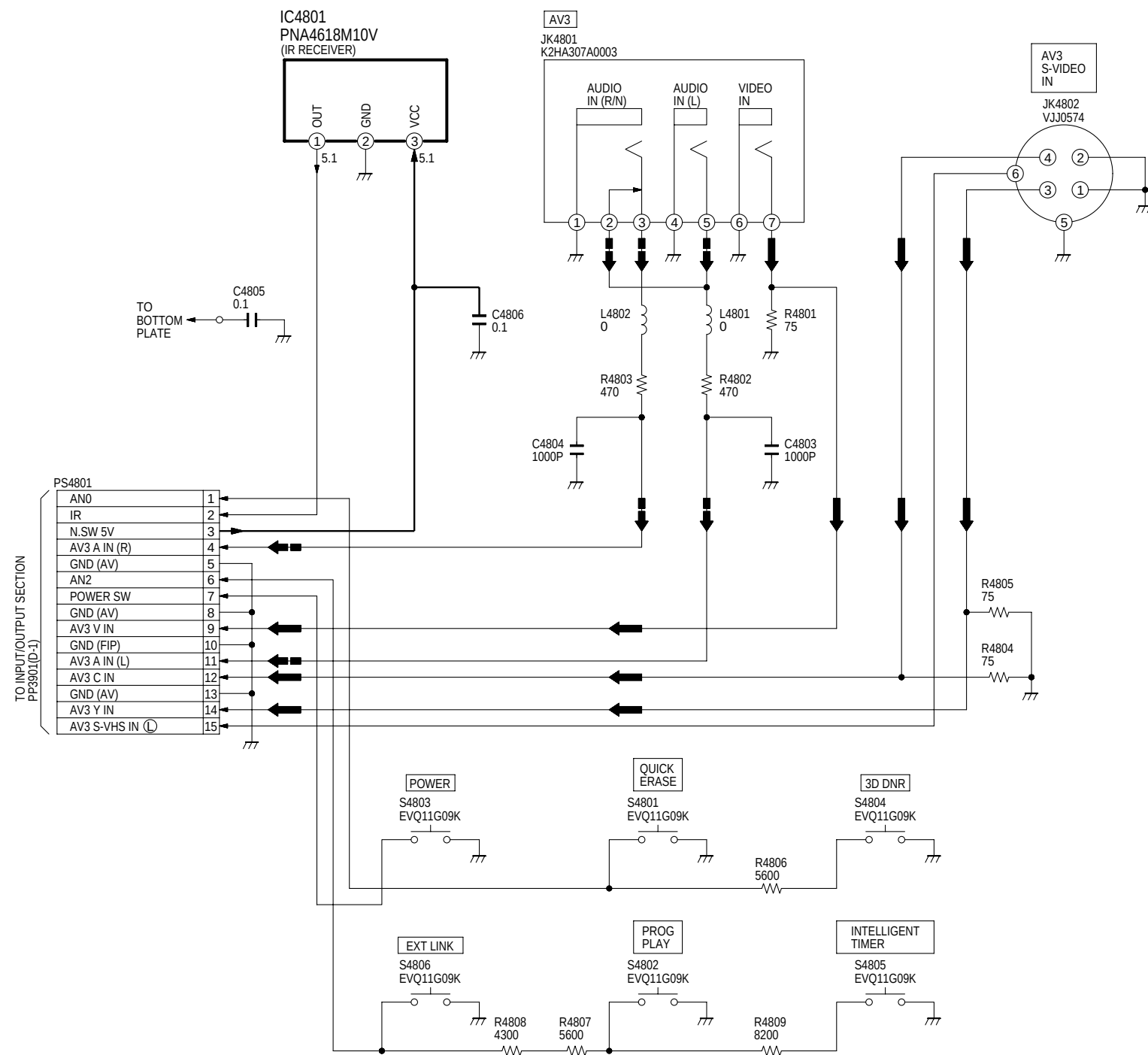
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-SV120EF
DECODER SECTION SCHEMATIC DIAGRAM

NV-SV120EF
Hi-Fi AUDIO SECTION SCHEMATIC DIAGRAM

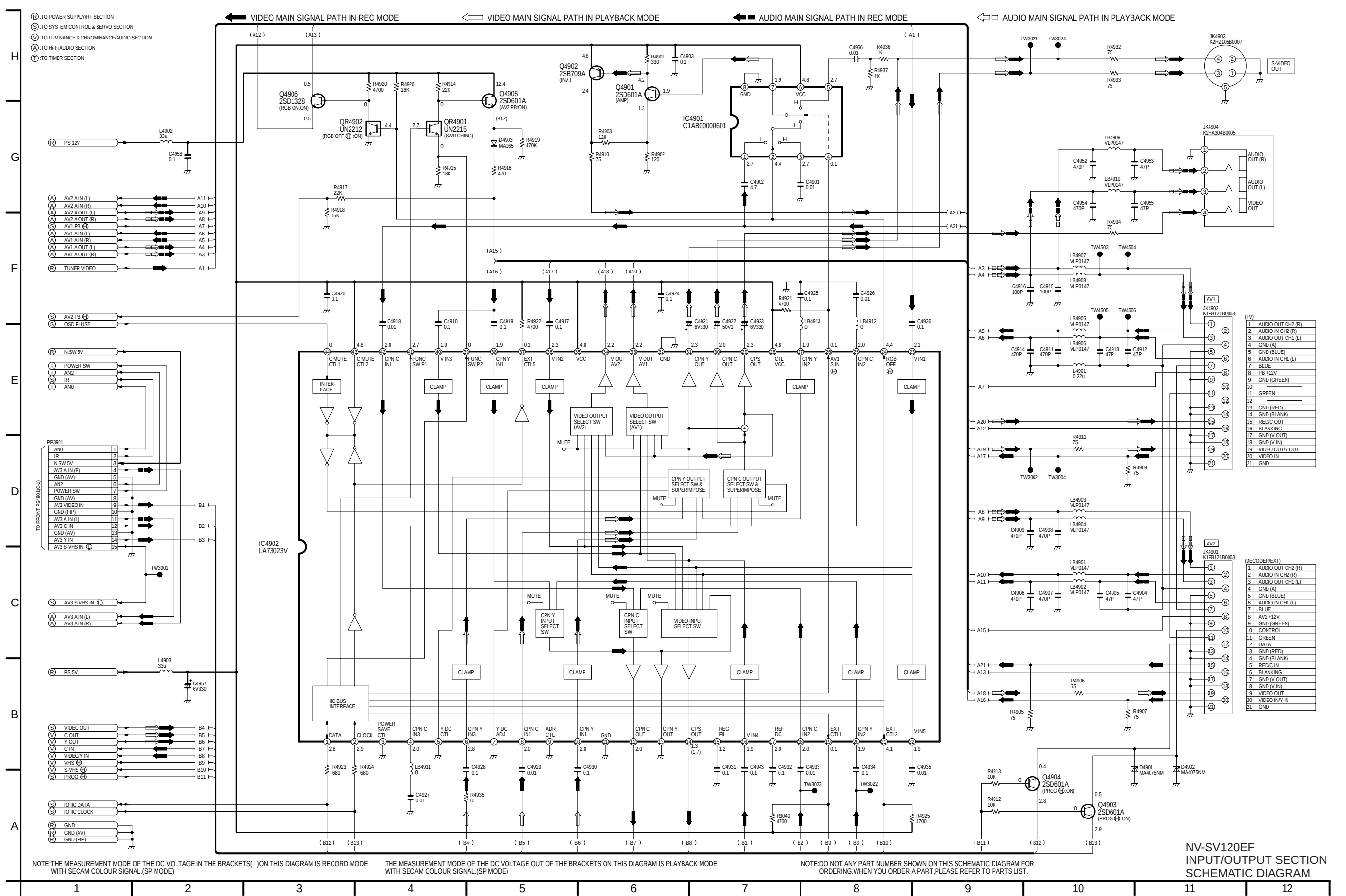
← VIDEO MAIN SIGNAL PATH IN REC MODE
← AUDIO MAIN SIGNAL PATH IN REC MODE



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-SV120EF
FRONT SCHEMATIC DIAGRAM



NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS() ON THIS DIAGRAM IS RECORD MODE WITH SECAM COLOUR SIGNAL.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH SECAM COLOUR SIGNAL.(SP MODE)

NOTE:DO NOT ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-SV120EF
INPUT/OUTPUT SECTION
SCHEMATIC DIAGRAM

THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

HOT



E

D

C

B

A

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:THE MEASURMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-SV120EF
POWER TRANSFORMER
SECTION SCHEMATIC DIAGRAM

A
B
C
D
E
F
G

◀ AUDIO MAIN SIGNAL PATH IN REC MODE

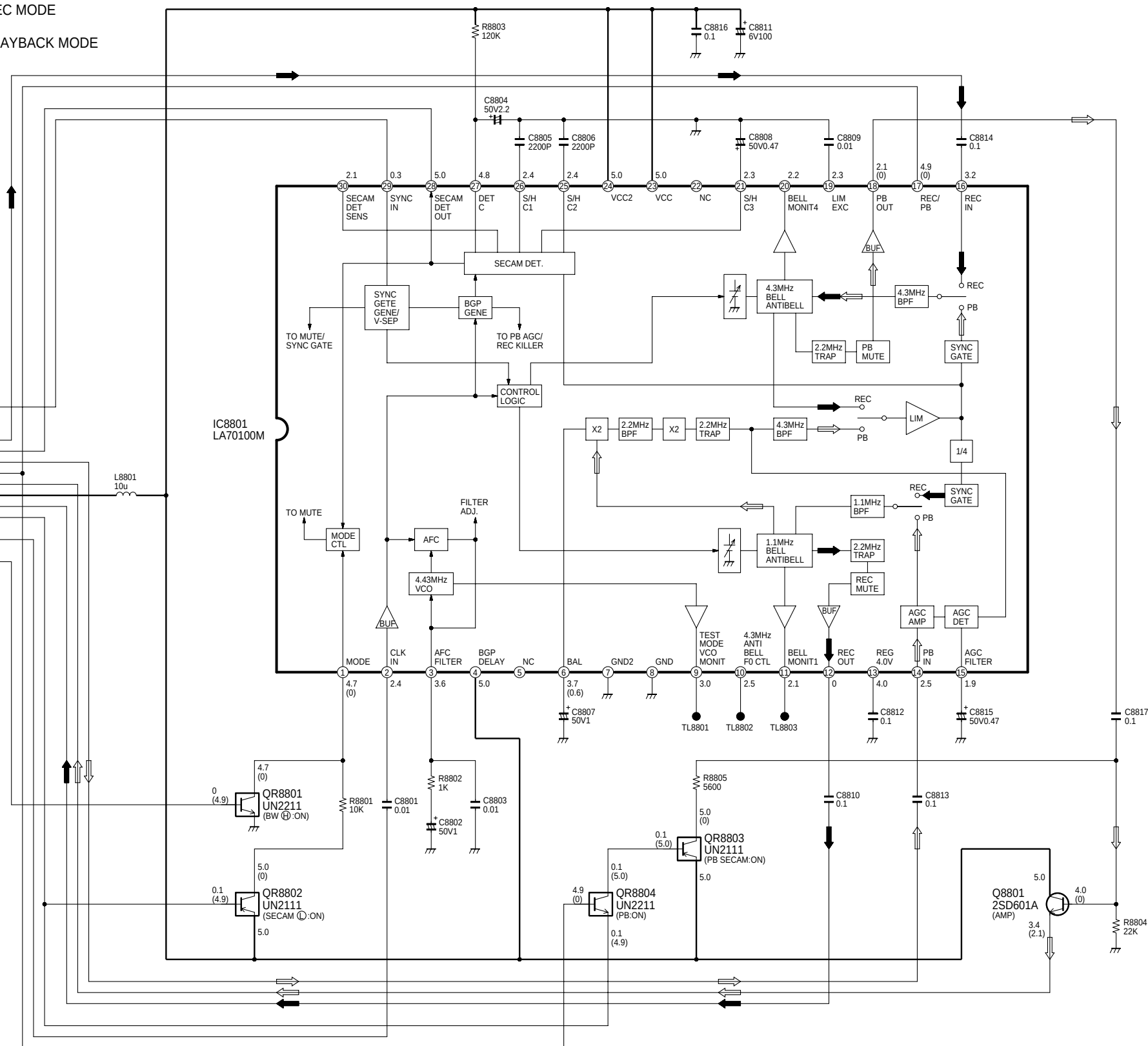


NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-SV120EF
POWER SUPPLY/RF
SECTION SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

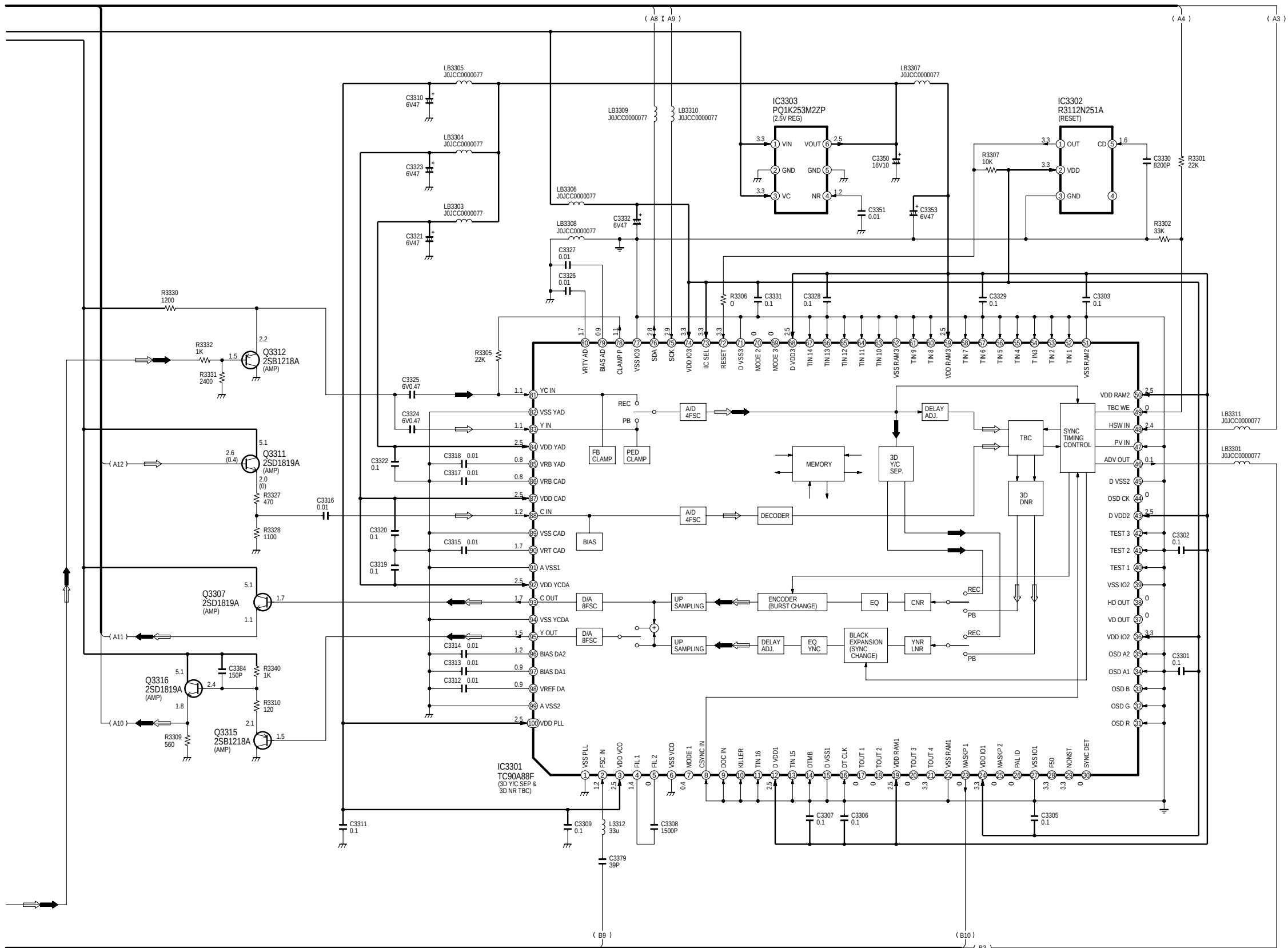
P8801		
P3003-15	C SYNC	1
P3003-14		2
P3003-13		3
P3003-12	REC CHROMA	4
P3003-11	SECAM DET (H)	5
P3003-10	RF CHROMA	6
P3003-9	V.EE (L)	7
P3003-8	PB SECAM C	8
P3003-7	SECAM 5V	9
P3003-6	REC SECAM C	10
P3003-5	SECAM (L)	11
P3003-4	GND (V)	12
P3003-3	FSC	13
P3003-2	GND (V)	14
P3003-1	BW (H)	15



NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS() ON THIS DIAGRAM IS RECORD MODE
WITH SECAM COLOUR SIGNAL.(SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
WITH SECAM COLOUR SIGNAL.(SP MODE)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS
SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU
ORDER A PART,PLEASE REFER TO PARTS LIST.

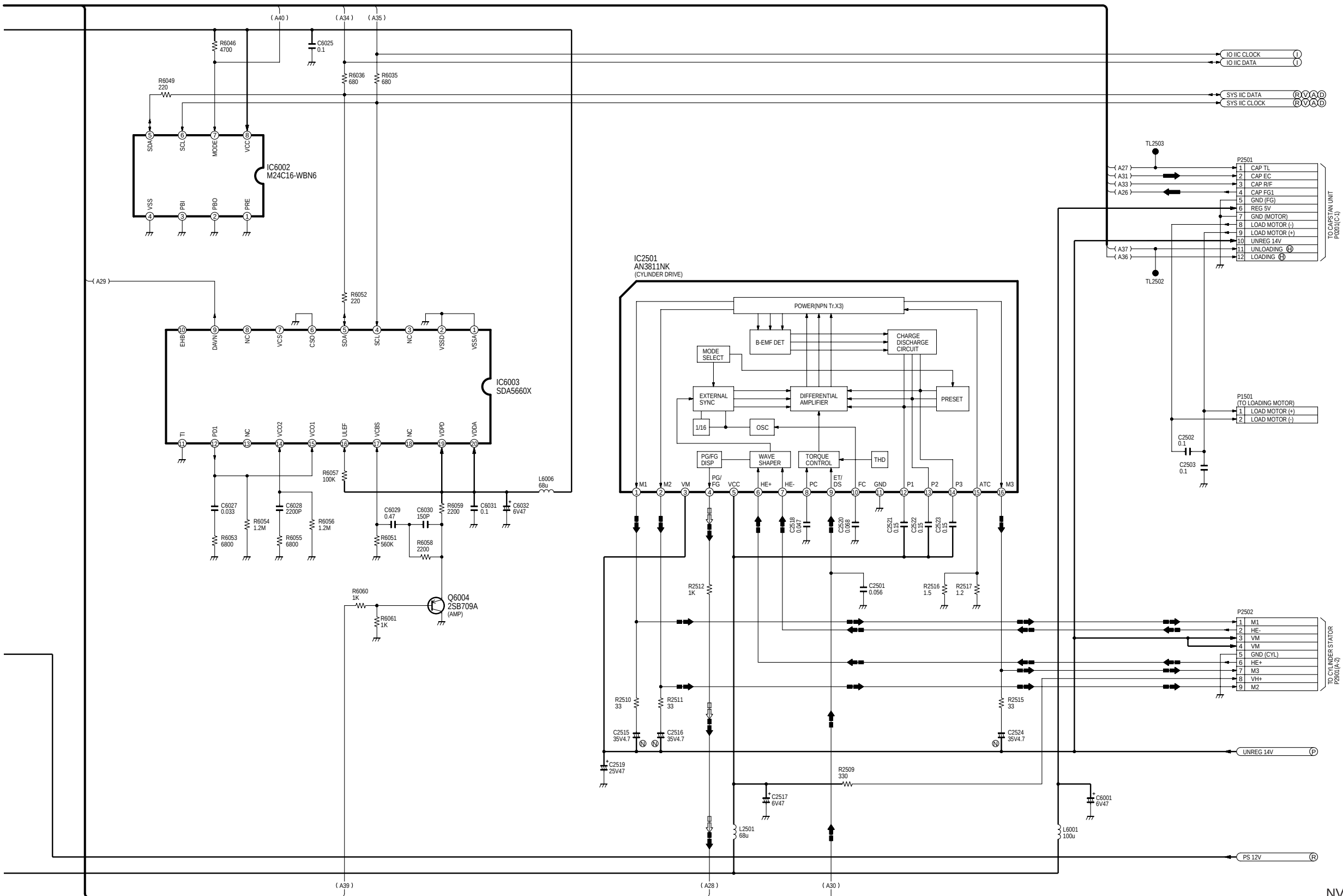
NV-SV120EF
SECAM PACK SCHEMATIC DIAGRAM



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-SV120EF
S-VHS PACK SCHEMATIC DIAGRAM

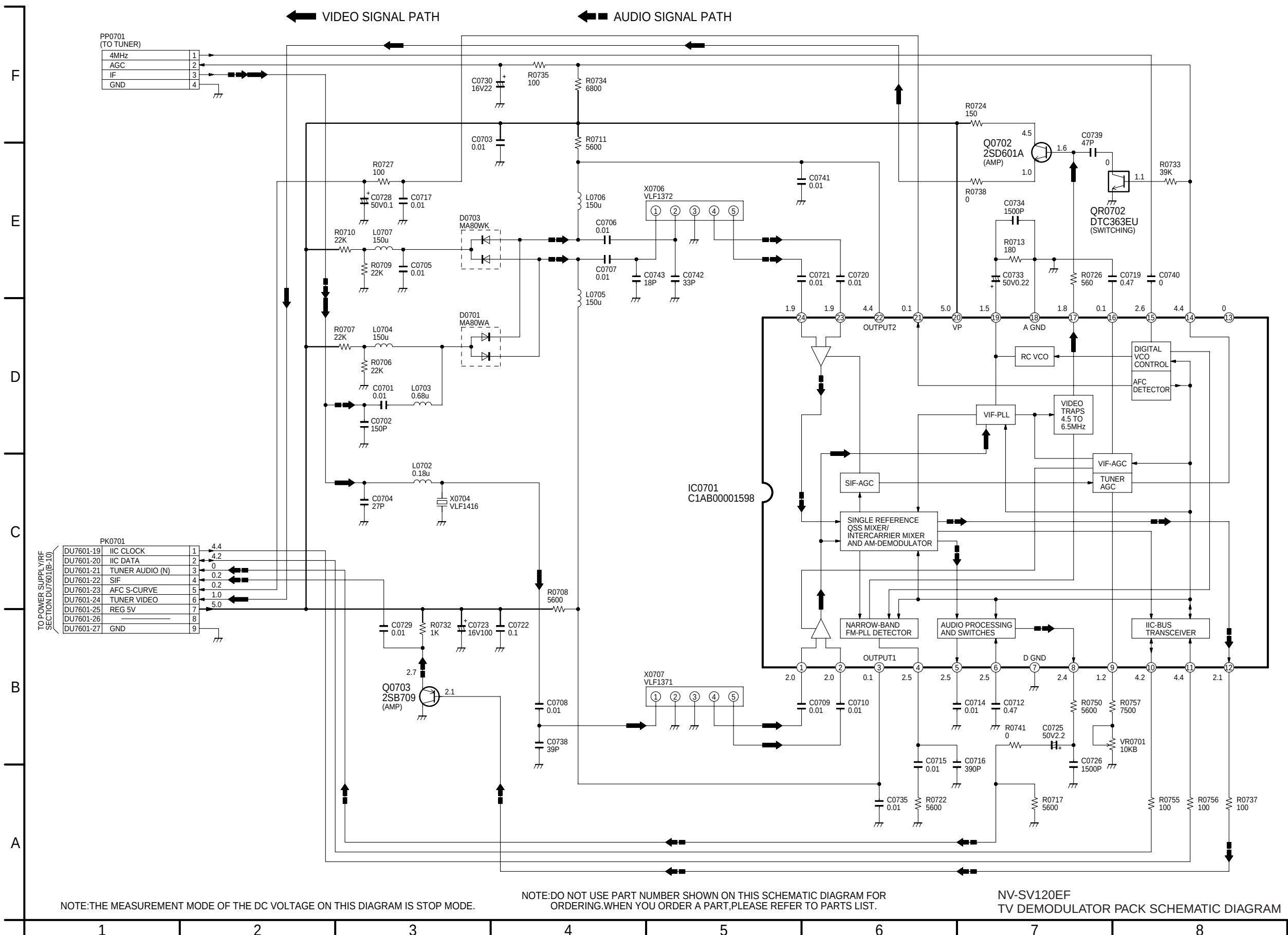
NV-SV120EF
S-VHS PACK SCHEMATIC DIAGRAM

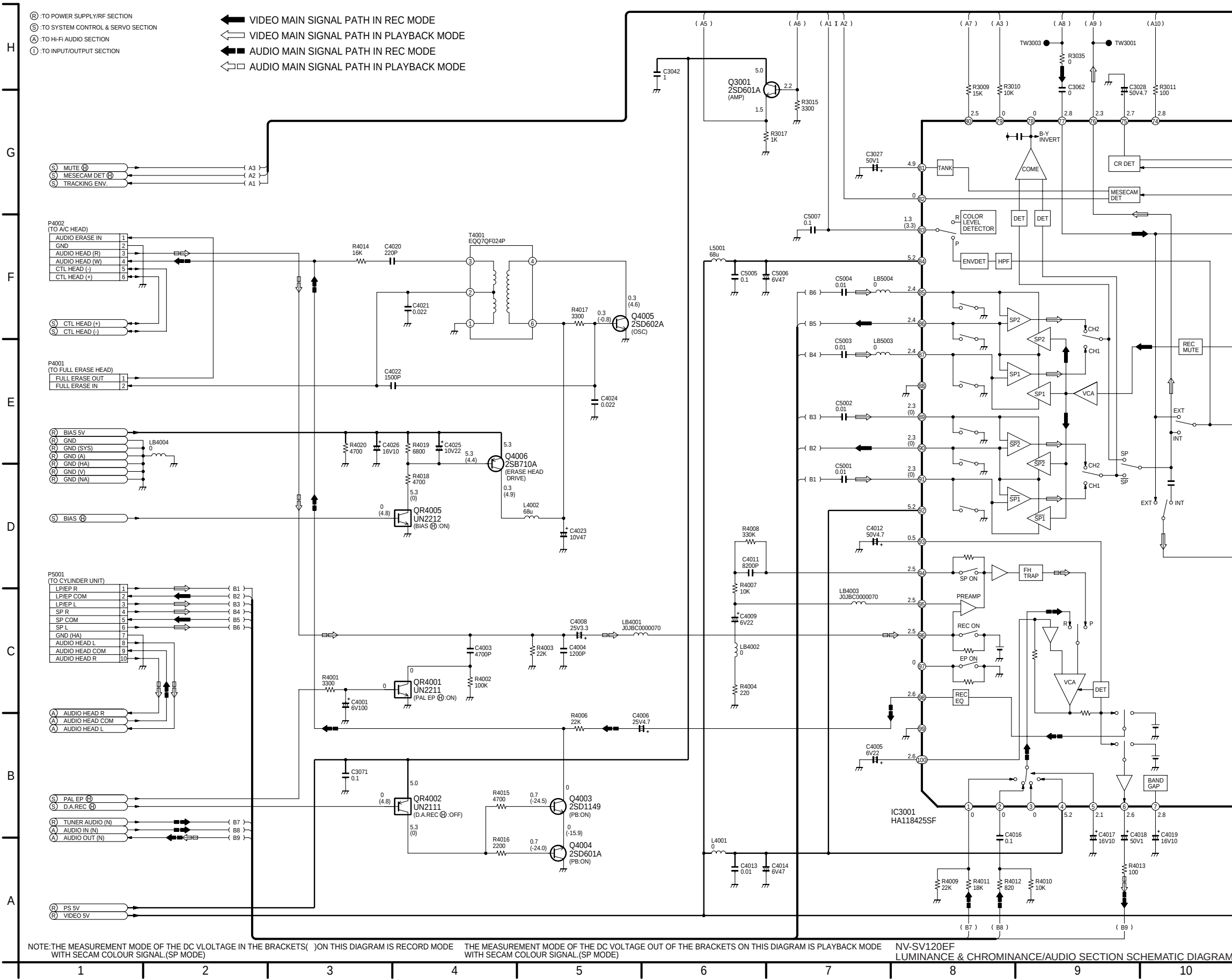


NV-SV120EF
SYSTEM CONTROL & SERVO SECTION SCHEMATIC DIAGRAM

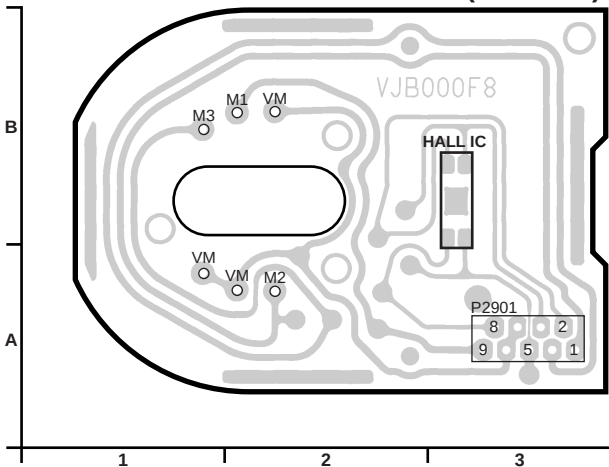
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-SV120EF
SYSTEM CONTROL & SERVO
SECTION SCHEMATIC DIAGRAM





(VEM0715)



CYLINDER STATOR UNIT	
Integrated Circuit	
HALL IC	B-3
Connector	
P2901	A-3

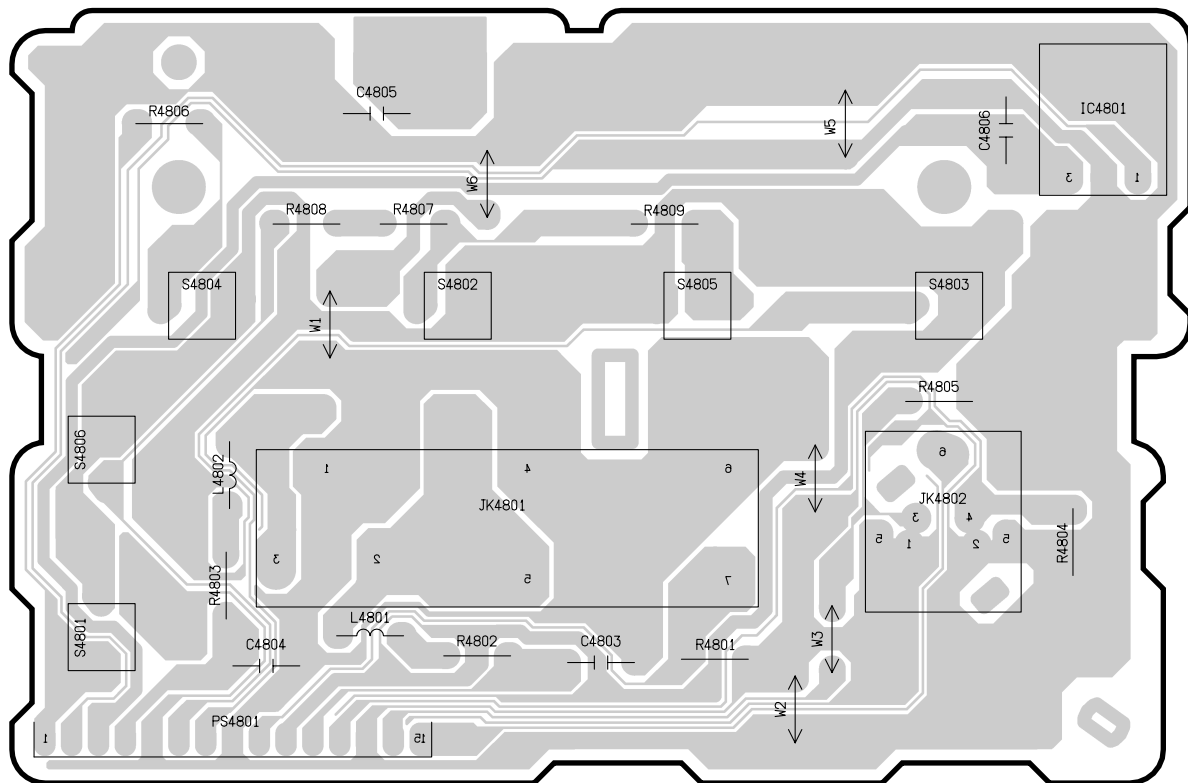
ADDRESS INFORMATION

NV-SV120EF
CYLINDER STATOR UNIT

FRONT C.B.A.	
Integrated Circuit	
IC4801	C-4
Connector	
PS4801	A-2

ADDRESS INFORMATION

(VEP04832A)



NV-SV120EF
FRONT C.B.A.

F

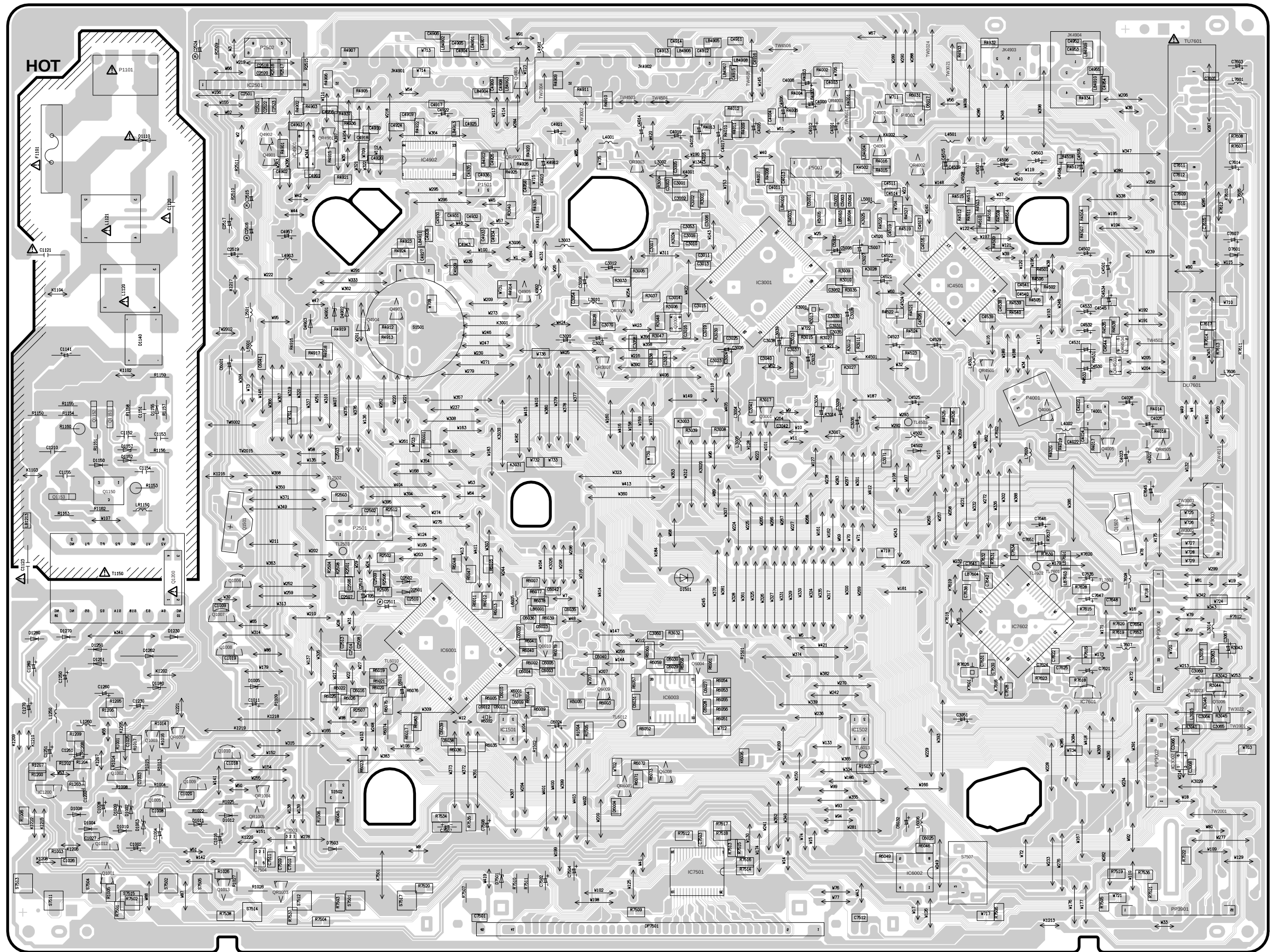
E

D

C

B

A



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK **⚠** HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

MAIN C.B.A.			
Transistor		Integrated Circuit	
Q1001	A-1	IC1200	B-1
Q1002	B-1	IC1501	B-4
Q1003	B-2	IC1502	B-6
Q1005	B-2	IC2501	F-2
Q1006	C-2	IC3001	E-5
Q1007	C-2	IC3002	B-8
Q1008	C-2	IC4501	E-7
Q1009	B-2	IC4901	F-3
Q1010	B-2	IC4902	F-3
Q1012	A-1	IC6001	C-3
Q1013	A-2	IC6002	A-6
Q1150	D-1	IC6003	B-5
Q1151	D-1	IC7501	A-5
Q1152	D-1	IC7503	A-3
Q1153	C-1	IC7504	A-2
Q1200	C-2	IC7601	B-7
Q1501	C-2	IC7602	C-7
Q1502	C-8	Test Point	
Q3001	D-5	TL2502	D-3
Q3006	B-8	TL2503	C-3
Q3007	E-5	TL4503	D-6
Q4003	F-6	TL6010	B-3
Q4004	F-6	TL6012	B-5
Q4005	D-8	TL6013	B-6
Q4006	D-7	TL7601	C-7
Q4901	F-2	TL7602	C-7
Q4902	F-2	TL7603	C-8
Q4903	E-3	TW2001	A-8
Q4904	E-3	TW2002	D-2
Q4905	E-4	TW2015	D-2
Q4906	F-4	TW3001	C-8
Q6004	B-5	TW3002	F-4
Q6008	B-5	TW3003	C-8
Q6009	B-4	TW3004	F-4
Q6010	C-4	TW3021	F-7
Transistor & Resistor		TW3022	B-8
QR1003	A-2	TW3023	B-8
QR1004	B-2	TW3024	F-7
QR1005	A-2	TW3901	B-8
QR3003	F-5	TW4501	F-6
QR3006	E-5	TW4502	D-8
QR3007	D-4	TW4503	F-5
QR4001	F-6	TW4504	F-5
QR4002	F-6	TW4505	F-5
QR4005	D-8	TW4506	F-6
QR4501	D-7	TW4511	D-8
QR4503	D-8	TW6002	D-2
QR4504	D-8	Connector	
QR4901	F-3	P1101	F-1
QR4902	F-4	P1501	E-4
QR6001	B-5	P2501	C-3
QR6004	B-2	P2502	F-2
		P3003	C-8
		P4001	D-7
		P4002	F-6
		P5001	F-6
		PP3001	C-8
		PP3002	B-8
		PP3901	A-8
		TU7601	F-8

ADDRESS INFORMATION

SECAM C.B.A.	
Transistor	
Q8801	B-4
Transistor & Resistor	
QR8801	B-1
QR8802	B-2
QR8803	A-4
QR8804	A-4
Integrated Circuit	
IC8801	C-3
Test Point	
TL8801	B-3
TL8802	B-3
TL8803	B-4
Connector	
P8801	B-2

ADDRESS INFORMATION

(VEP08328A)

